

# REMEDIAL INVESTIGATION REPORT

**For the Property Located at  
514-520 West 28th Street  
New York, NY 10001  
NYSDEC BCP No. C231082**

Submitted to:

New York State Department of Environmental Conservation  
Division of Environmental Remediation  
Remedial Bureau B  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233-7016

Prepared for:

28<sup>th</sup> Highline Associates, L.L.C.  
c/o The Related Companies  
60 Columbus Circle  
New York, NY 10023

Prepared by:



61 Broadway  
Suite 1601  
New York, NY 10006

FINAL  
June 26, 2013

*Affiliated with Integral Consulting Inc.*

## CONTENTS

<b>LIST OF FIGURES .....</b>	<b>v</b>
<b>LIST OF TABLES .....</b>	<b>vi</b>
<b>Certification .....</b>	<b>1-1</b>
<b>1 INTRODUCTION .....</b>	<b>1-2</b>
1.1 SITE DESCRIPTION .....	1-2
1.1.1 Purchase Property Tax Lot Clarification .....	1-3
1.2 REGULATORY INTERACTION .....	1-4
1.2.1 NYCOER E-Designation Program .....	1-4
1.2.2 NYS Spills Program .....	1-4
1.3 OBJECTIVES .....	1-4
<b>2 Site BACKGROUND .....</b>	<b>2-6</b>
2.1 PHYSICAL SETTING .....	2-6
2.1.1 Geologic Setting .....	2-6
2.1.2 Hydrogeologic Setting .....	2-7
2.1.3 Subsurface Features .....	2-7
2.2 PREVIOUS INVESTIGATIONS .....	2-7
2.2.1 Phase I Environmental Site Assessment .....	2-7
2.2.2 Subsurface Investigations .....	2-8
<b>3 REMEDIAL INVESTIGATION .....</b>	<b>3-14</b>
3.1 CONCRETE CORING AND SAMPLING .....	3-14
3.2 SOIL BORING INSTALLATION AND SAMPLING .....	3-14
Methodology .....	3-15
3.3 MONITORING WELL INSTALLATION AND SAMPLING .....	3-16
Methodology .....	3-17
3.4 SOIL VAPOR POINT INSTALLATION AND SAMPLING .....	3-18
Methodology .....	3-18
3.5 INVESTIGATION DERIVED WASTE .....	3-19
3.6 HEALTH AND SAFETY PLAN (HASP) .....	3-19
3.7 QUALITY ASSURANCE / QUALITY CONTROL (QA/QC) .....	3-19
3.8 SUMMARY TABLE OF PROPOSED SAMPLING LOCATIONS .....	3-20
3.9 AIR MONITORING .....	3-20

<b>4</b>	<b>REMEDIAL INVESTIGATION Results .....</b>	<b>4-21</b>
4.1	SOIL .....	4-21
4.1.2	Applicable Regulatory Standards for Soil .....	4-21
4.1.3	Soil Results .....	4-22
4.1.4	VOCs .....	4-22
4.2	CONCRETE .....	4-24
4.3	GROUNDWATER .....	4-24
4.3.1	Applicable Regulatory Standards for Groundwater .....	4-25
4.3.2	Groundwater Results .....	4-25
4.4	SOIL VAPOR .....	4-26
4.4.1	Applicable Regulatory Standards .....	4-26
4.4.2	Soil Vapor Results .....	4-27
<b>5</b>	<b>QUALITATIVE EXPOSURE ASSESSMENT .....</b>	<b>5-28</b>
5.1	CONTAMINANT SOURCES .....	5-28
5.2	CONTAMINANT RELEASE AND TRANSPORT MECHANISMS .....	5-29
5.3	POTENTIAL RECEPTOR POPULATIONS .....	5-29
5.4	POTENTIAL ROUTES AND POINTS OF EXPOSURE .....	5-29
5.5	SUMMARY OF QUALITATIVE EXPOSURE ASSESSMENT .....	5-30
<b>6</b>	<b>CONCLUSIONS .....</b>	<b>6-31</b>
6.1	SOIL .....	6-31
6.2	GROUNDWATER .....	6-31
6.3	SOIL VAPOR .....	6-31
6.4	ONSITE SPILL .....	6-32
<b>7</b>	<b>REFERENCES .....</b>	<b>7-33</b>

## LIST OF APPENDICIES

Appendix A	Impact Environmental Phase I ESA
Appendix B	Impact Environmental Phase II ESA
Appendix C	ELM Engineering Supplemental Site Investigation
Appendix D	Boring Logs & Monitoring Well Sampling Logs
Appendix E	Field Sampling Plan (FSP)
Appendix F	Quality Assurance Project Plan (QAPP)
Appendix G	Health and Safety Plan with Community Air Monitoring Plan (HASP/CAMP)

Appendix H   Electronic Data Summary  
                    Laboratory Data Packages  
                    Data Usability Summary Report (DUSR)



## LIST OF FIGURES

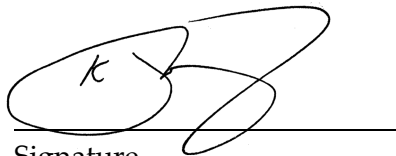
- Figure 1. Site Location Map
- Figure 2. Site Plan
- Figure 3. Current and Previous Site Boundaries
- Figure 4. Groundwater Contour Map
- Figure 5. Previous Sampling Locations for All Investigations
- Figure 6. Previous Investigations Soil Analytical Results Map for VOCs/SVOCs
- Figure 7. Previous Investigations Soil Analytical Results Map for Metals
- Figure 8. Previous Investigations Groundwater Analytical Results Map
- Figure 9. Previous Investigations Soil Vapor Analytical Results Map
- Figure 10. Remedial Investigation (RI) Sample Locations
- Figure 11. RI - SVOCs in Soil Exceeding Part 375 Unrestricted SCOs
- Figure 12. RI - SVOCs in Soil Exceeding Part 375 Restricted Residential SCOs
- Figure 13. RI - Metals in Soil Exceeding Part 375 Unrestricted SCOs
- Figure 14. RI - Metals in Soil Exceeding Part 375 Restricted Residential SCOs
- Figure 15. RI - VOCs in Groundwater Exceeding TOGS AWQSs
- Figure 16. RI - Metals in Groundwater Exceeding TOGS AWQSs
- Figure 17. RI – Soil Vapor Analytical Results Map

## LIST OF TABLES

Table 1.	Impact Environmental's Sample Analytical Data for Soil and Groundwater (2007)
Table 2.	ELM's Soil Analytical Results for VOCs (2012)
Table 3.	ELM's Soil Analytical Results for SVOCs (2012)
Table 4.	ELM's Soil Analytical Results for Metals (2012)
Table 5.	ELM's Soil Analytical Results for PCBs (2012)
Table 6.	ELM's Soil Analytical Results for Pesticides (2012)
Table 7.	ELM's Groundwater Analytical Results for VOCs (2012)
Table 8.	ELM's Groundwater Analytical Results for SVOCs (2012)
Table 9.	ELM's Groundwater Analytical Results for Metals (2012)
Table 10.	ELM's Groundwater Analytical Results for PCBs (2012)
Table 11.	ELM's Groundwater Analytical Results for Pesticides (2012)
Table 12.	ELM's Soil Vapor Analytical Results for VOCs (2012)
Table 13.	Summary of Remedial Investigation (RI) Sampling Locations
Table 14.	RI - Soil Analytical Results for VOCs
Table 15.	RI - Soil Analytical Results for SVOCs
Table 16.	RI - Soil Analytical Results for Metals
Table 17.	RI - Soil Analytical Results for PCBs
Table 18.	RI - Soil Analytical Results for Pesticides
Table 19.	RI - Concrete Analytical Results for PCBs
Table 20.	RI - Groundwater Analytical Results for VOCs
Table 21.	RI - Groundwater Analytical Results for SVOCs
Table 22.	RI - Groundwater Analytical Results for Metals
Table 23.	RI - Groundwater Analytical Results for PCBs
Table 24.	RI - Groundwater Analytical Results for Pesticides
Table 25.	RI - Soil Vapor Analytical Results for VOCs

## CERTIFICATION

*I Kevin McCarty, P.G. certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Report 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

10/1/2013  
Date

# 1 INTRODUCTION

Integral Engineering P. C. (Integral) has prepared this Remedial Investigation Report (RIR) on behalf of 28<sup>th</sup> Highline Associates, L.L.C. (Volunteer) for the property located at 514-520 West 28<sup>th</sup> Street (Block 699, Lots 43 and 44), New York, NY (Site). The Site is currently enrolled in the New York State Brownfield Cleanup Program (BCP) Site #C231082.

This RIR presents the results of the Remedial Investigation (RI) performed at the Site during the month of April 2013 and includes summaries of the Site history, previous environmental assessments and investigations, a description of the Site geologic and hydrogeologic setting, subsurface features, conclusions and recommendations that will aid in the development of a Remedial Action Work Plan.

## 1.1 SITE DESCRIPTION

The Site is located in a commercial and residential area in the West Chelsea section of the Borough of Manhattan. The Site covers an area of approximately 20,000-square feet on a P - shaped parcel located in the central portion of the block. It is bounded to the north by West 28<sup>th</sup> Street; to the east by 10<sup>th</sup> Avenue; to the south by West 27<sup>th</sup> Street and to the west by 11<sup>th</sup> Avenue. Adjacent surrounding properties include mixed use, commercial and residential buildings to the south, west and east; manufacturing to the south; and the High Line Park (former elevated rail structure) to the east. The Site is identified on New York City tax maps as Block 699, Lots 43 and 44.<sup>1</sup> A Site location map is provided as Figure 1. A map showing the Site property boundaries under the BCP is included as Figure 2.

The Site was previously and most recently occupied by a scrap yard (Lot 43) and separate car rental establishment (Lot 44). These businesses ceased operations in December 2012 prior to entrance in the BCP. The Site is not currently improved with any buildings. The majority of the surface is covered by a non-uniform, uneven layer of concrete that ranges in thickness from 12 to 48 inches. The remainder of the property contains both patches of asphalt paving and open soil cover. A trailer body and various sheds that previously occupied portions of the Site have been removed, and both Lots are currently vacant. The 20 foot high sheet metal wall located on Lot 44 approximately 25 feet west of the Lot 44/43 boundary and described in the Remedial Investigation Work Plan (RIWP) has also been removed.

The trailer body previously located on Lot 44 was used as office space, while the sheds housed equipment reportedly used to maintain the rental cars. It was reported by the Site representative that major maintenance of the vehicles was not performed on the property.

---

<sup>1</sup> On May 14, 2013 an application was filed with the NYC Department of Finance to merge Lots 43 and 44. On May 15, 2013 the merger was recorded and Lot 44 was dropped. The Site is currently defined as Block 699, Lot 43.

Storage on Lot 43 (scrap yard) consisted of large piles of scrap metal and sheds that contained various pieces of metal and equipment (e.g., refrigeration units and generators).

According to previous investigations and reports conducted and prepared by Impact Environmental (Impact) in 2007, there are presently two inactive underground storage tanks (USTs) on the southern portion of Lot 44. Both USTs are registered with NYSDEC as having stored gasoline, but have no recorded capacity. Additionally, there are two inactive 550-gallon diesel USTs located in the northeastern corner of Lot 42, upgradient and immediately offsite.<sup>2</sup>

The Site is currently zoned C6-3 for mixed commercial use. It is anticipated that future re-development of the Site will consist of a multi-story mixed use building with a full basement.

Based on a review of the New York City Mayor's Office of Environmental Remediation's (OER's) Searchable Property Environmental E-Database (SPEED), no hospitals, day care facilities, or schools are present within 500 feet of the Site.

### **1.1.1 Purchase Property Tax Lot Clarification**

Three assessments/investigations have been performed for the Site defined as 505 West 27<sup>th</sup> Street: a Phase I Environmental Site Assessment (ESA) and a Phase II ESA performed by Impact in 2007 and a Supplemental Site Investigation (SSI) performed by ELM Engineering (ELM) in 2012. Since the performance of Impact ESAs, the formal Lot definition of the Site has changed in the following ways:

- In 2007, the Site consisted of four tax Lots (44, 25, 26, and 27);
- In 2012, the Site was redefined as only including Lot 44 and a portion of Lot 27. This definition of the Site was applied during ELM's SSI, performed in September 2012;
- Since the performance of the SSI, Lot 27 had been formally subdivided into three tax Lots (Lots 43, 42, and 27), with the current Site only incorporating a portion of the former Lot 27, now designated Lot 43 (see Figure 3).

#### **1.1.1.1 Project Implications**

- While the SSI performed in 2012 included an investigation within the current Site limits, the Lot numbers had yet to be changed, therefore any reference to Lot 27 in the SSI Report, should be considered interchangeable with Lot 43;
- Impact's Phase II ESA included the collection of a number of samples outside of the newly defined Site boundary. These samples (Soil SB-1 – SB-5 and Groundwater GWP-1 and GWP-2) are not included as part of Integral's conceptual site model;

---

<sup>2</sup> During the performance of the Phase I this area was considered part of the Site and was mapped as part of Lot 27. Presently, this part of Lot 27 has been remapped as Lot 42.

- Impact's Phase I ESA identified the presence of four USTs onsite. The current Site boundary encompasses only two USTs (identified on Lot 44). The other two USTs now fall outside of the Site boundary and are located hydraulically upgradient of the eastern Site boundary.

## **1.2 REGULATORY INTERACTION**

### **1.2.1 NYCOER E-Designation Program**

As part of the West Chelsea re-zoning, approved by the City on June 23, 2005, a Hazardous Materials E-Designation was assigned to both tax lots that formally comprised the Site (Lots 27 and 44); it is our understanding that the E-Designation follows the property, therefore since Lot 27 was assigned an "E", and subsequently divided into three tax lots, all three Lots (27, 42, and 43) retain that E-Designation. Additionally, a Noise E-Designation has been assigned to tax Lot 44. The E-Designation program is administered by OER; E-Designations are assigned to development sites identified by a lead agency during the City Environmental Quality Review (CEQR) of a proposed zoning action in order to apply environmental requirements related to potential hazardous materials, air quality, or noise impacts resulting from the proposed action.

Work Plans and reports submitted to the NYSDEC as part of the BCP will also be submitted to OER for their records and will satisfy the Hazardous Materials E-Designation on both Lots. A separate Noise Remedial Action Plan (RAP) will be submitted to OER to satisfy the Noise E-Designation on Lot 44.

### **1.2.2 NYS Spills Program**

During the performance of the RI, Integral observed approximately 1/8" of what appeared to be non-aqueous phase liquid (NAPL) in monitoring well MW-1. This well (MW-1) was previously installed by ELM Engineering (now Integral Engineering) during the implementation of the SSI in August 2012. At the time of installation, no impacts to groundwater or soil were observed in the field or detected in laboratory analysis. Integral reported a spill on April 23, 2013, subsequently; NYSDEC assigned Spill No. 1300765 to the Site.

Spill No. 1300765 will be addressed through the implementation of an Interim Remedial Measure (IRM), which includes excavation and proper decommissioning of the onsite USTs.

## **1.3 OBJECTIVES**

The objectives of the RI, as outlined in the RIWP (Integral, April 2013) are as follows:

- To define the nature and extent of contamination on the Site.

- To identify if residual contaminant source areas are present on the Site.
- To determine whether remedial action is needed to protect human health and the environment.
- To produce data of sufficient quantity and quality to support the remediation of the Site, if warranted.

This RI was developed in general accordance with the NYSDEC's Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10), dated May 2010.

References used in assessment of this Site and for development of this Report are identified in the References section at the end of this document.

## 2 SITE BACKGROUND

The Site was used as a metal scrap yard from 1982 until 2012. An automobile repair shop and/or automobile garage was located on a portion of the Site from approximately 1950 until 2012. The Site has been used since 1899 for commercial purposes including a wood yard, laundry cleaning, metal works, manufacturing, motor freight storage, automobile repair and a scrap yard. Each of those facilities stored and utilized a variety of chemical and petroleum products.

Two gasoline USTs of unknown capacity are present onsite. New York City Department of Building (NYCDOB) records indicate that a gasoline tank permit was issued in 1934. No documentation was available regarding the proper decommissioning or testing associated with the UST. One onsite spill (#9109614) was reported to the NYSDEC in December 1991. The cause of the spill was a ten gallon overfill of a gasoline tank. The spill was closed in December 2003. There was no specific record of the investigation or work to close this spill and it is assumed to have been a surficial issue that was satisfactorily addressed.

### 2.1 PHYSICAL SETTING

The Site includes approximately .51 acres of fairly level land situated in the City of New York, New York County, New York. The Site is mapped on the *Weehawken, NY-NJ* Quadrant 7.5 Minute Topographic Map, published by the United States Geological Survey (USGS). Review of the topographic map indicates that the Site is located approximately 15 feet above sea level (NAVD 88).

#### 2.1.1 Geologic Setting

The shallow subsurface at the Site consists of fill material underlain by sands, silts and glacial till. The fill has been identified from current and prior borings to consist of concrete, brick, cinders and other construction debris, silt, sand and gravel and is generally present from the surface to 10 ftbg. Native soils encountered during the performance of the RI consists primarily of coarse to medium sand, some silt and glacial till. The till included poorly sorted sand and gravel and is generally present below the fill to the bottom of the borings includes in the investigations (10-15 ftbg).

The Site is situated within the Manhattan Prong region of the Highlands Province characterized by highly deformed Paleozoic to Proterozoic metasedimentary and metaigneous rocks. The crystalline rocks of the Manhattan Prong are separated by complexly deformed, northeast-trending ductile thrust faults mapped as the St. Nicholas thrust and Cameron's Line (Merguerian, 1983a; Merguerian and Baskerville, 1987) which separate contrasting sequences of metamorphosed Lower Paleozoic strata formerly lumped together as the Manhattan Schist formation.



Depth to bedrock beneath the Site has not been identified. It is mapped as the structurally highest, upper schist unit (€-Oh) which is a dominantly well layered, gray-weathering, fine- to coarse-grained, muscovite-quartz - biotiteplagioclase-kyanite-garnet schist, gneiss, and granofels with cm- and m-scale layers of greenish amphibolite±garnet.

### **2.1.2 Hydrogeologic Setting**

Groundwater has been measured at depths ranging from approximately 8.5 to 11 ftbg, which is several feet shallower than the proposed excavation depth. The topography of the Site is relatively flat. Given the relatively shallow depth to groundwater, the near absence of infiltration and the existence of numerous subsurface structures and infrastructure, groundwater flow is expected to have significant, but local, influences that are not identifiable from the surface. A formal elevation survey was conducted on June 14, 2013 to provide groundwater elevations. The local groundwater flow is west toward the Hudson River. A groundwater contour map is included as Figure 4.

The entire Site, as well as the surrounding area, is developed, and no large areas of open land exist. The largest open parkland exists above grade on the High Line. As a result, no wetlands or surface water bodies are present at the Site. The nearest surface water body is the Hudson River, located approximately 1,800 feet to the west.

### **2.1.3 Subsurface Features**

Two gasoline USTs of unknown capacity have been identified in the southern portion of Lot 44. The Phase I ESA indicated that the NYCDOB issued a gasoline tank permit in 1934. No documentation was available regarding the age, condition, period of usage, replacement or proper decommissioning or any tightness testing associated with these USTs. The tanks are not currently registered with NYSDEC. FDNY historically limited the size of USTs to 550 gallons; if the tanks are from this early period, they are expected to be similar in volume.

## **2.2 PREVIOUS INVESTIGATIONS**

### **2.2.1 Phase I Environmental Site Assessment**

A Phase I ESA conducted by Impact and dated July 15, 2007, identified the following recognized environmental conditions (RECs) in connection with the Site:

- The Site has been used since 1899 for commercial and industrial purposes including wood yard, laundry cleaning, metal works, manufacturing, motor freight storage, automobile repair and a scrap yard. Each of those facilities stored, handled, and utilized a variety of chemical and petroleum products.

- Four USTs are located at the Site;<sup>3</sup> all four USTs are reported to be inactive. No tank closure documentation exists, nor is there any specific documentation that indicates when the tanks were taken out of service. The diesel tanks have been reported to have been abandoned in place and filled with sand. The tanks include two abandoned 550-gallon diesel fuel tanks and two abandoned gasoline tanks of unknown capacity.

NYCDOB records also indicated the issuance of a gasoline tank permit in 1934 (GT 81-34). According to the current owner, two abandoned USTs located on the adjacent property had a reported capacity of 550 gallons each, and were used historically for the storage of diesel fuel. These two tanks were abandoned in place and filled with sand. A fill port (labeled as gasoline) was observed in the sidewalk, immediately north of these diesel USTs, indicating their usage may have changed over time.

The two inactive USTs maintained on the southwestern portion of the Site (with an unknown capacity) were reportedly utilized for the storage of gasoline. A fill port labeled as gasoline was observed in the sidewalk immediately to the south of these abandoned gasoline USTs. No documentation was available regarding the abandonment, replacement, decommissioning, closure assessment or tightness testing associated with these USTs.

The Phase I report concluded that further assessment would be necessary to determine if the presence of the tanks and associated piping had an impact to the quality of soils or groundwater at the Site. Impact's Phase I ESA is included as Appendix A. Subsequent subsurface investigations conducted by Impact and ELM are summarized in sections 2.2.2.1 and 2.2.2.2 below.

## 2.2.2 Subsurface Investigations

Subsurface investigations were conducted at the Site by Impact in 2007 and ELM in 2012. The investigations included the completion of a total of 10 soil borings, three (3) temporary wells, four (4) groundwater monitoring wells, and three (3) soil vapor probes<sup>4</sup>. Sample locations from all previous investigations are depicted on Figure 5. Soil sample analytical results were compared to Part 375 Soil Cleanup Objectives (SCOs), and the relative exceedences to those criteria exceedences are depicted on Figures 6 and 7. Groundwater sample analytical results were compared to NYSDEC Division of Water Technical Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values (AWQSSs). TOGS AWQSSs exceedences are depicted on Figure 8. Soil vapor results were compared to New York State

---

<sup>3</sup> At the time that the Impact Phase I was conducted, the boundaries of the Site were defined differently. The Site as defined by this RIR includes 2 gasoline USTs, with 2 diesel USTs being approximately 15-25 feet upgradient of the eastern Site boundary.

<sup>4</sup> Number of soil boring and temporary wells excludes locations that were conducted outside of the current Site boundary

Department of Health (NYSDOH) indoor vapor guidance criteria. Soil vapor results are depicted on Figure 9 (no soil vapor samples were collected as part of Impact's Phase II ESA).

### **2.2.2.1 Impact's Environmental Limited Phase II ESA**

#### Scope of Work

Prior to implementation of the subsurface sampling program, Impact performed a geophysical survey over portions of the Site utilizing ground penetrating radar (GPR). The survey was performed to attempt to identify and determine the orientation and approximate location of the inactive onsite USTs.

A total of ten (10) soil borings were advanced, using a truck mounted Geoprobe, to depths ranging from 10 to 12 feet below grade (ftbg). Soil borings locations were chosen based on the RECs identified in the Phase I ESA. In addition, a general Site characterization gridding pattern was added to provide more general coverage of the Site. Based on the site usage, large areas were not accessible. A total of ten (10) soil samples were collected (one from each boring) from depths between 2 to 12 ftbg. Soil samples were analyzed for the following: volatile organic compounds (VOCs); semi-volatile organic compounds (SVOCs); and metals. Soil sample results were compared against NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046, Determination of Soil Cleanup Objectives (SCOs). Since the date of this report, TAGM SCOs have been replaced with the NYSDEC Commissioner's Policy 51 (CP-51) soil cleanup levels (SCLs), which serve to supplement the 6 NYCRR Part 375-6.8(b) cleanup objectives (SCOs).

Additionally, three (3) temporary groundwater probes were installed utilizing a Geoprobe Screen Point. One (1) grab groundwater sample was collected from each probe and analyzed for the aforementioned parameters. Groundwater sample analysis was compared against NYSDEC Division of Water Technical Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values (AWQSs).

#### Findings

- Laboratory analysis of two (2) soil samples indicated elevated levels (above Unrestricted SCOs) of SVOCs consistent with historic fill. No SVOCs were detected above Restricted Residential SCOs;
- Laboratory analysis of all of the soil samples indicated elevated levels of various metals consistent with current and historic Site operations;
- One (1) soil sample SB-11[3-5'] collected beneath the concrete surface indicated elevated levels of total xylenes, 1,2,4-trimethylbenzene and 1,2,5-trimethylbenzene above TAGM SCOs was present. When compared to Part 375 Restricted Residential SCOs; the concentration of total xylenes is below its respective SCO of 100 parts per million (ppm), 1,2,4-trimethylbenzene exceeds its respective SCO of 52 ppm, and there is no available SCO for 1,2,5-trimethylbenzene;

- Laboratory analysis of one (1) groundwater grab sample, GWSP-4, indicated elevated levels of cis-1,2-Dichloroethene (DCE), Phenanthrene and 2-Methylnaphthalene exceeding TOGS AWQSs .

Impact's soil and groundwater analytical table is included as Table 1. Impact's Phase II ESA Report is included as Appendix B.

#### **2.2.2.2 ELM's Supplemental Site Investigation**

##### Scope of Work

ELM conducted a Supplemental Site Investigation in August 2012 to further evaluate the nature and extent of soil and groundwater impacts identified in the initial Limited Phase II ESA and to close data gaps in Impact's investigation. The Site was an operating scrap yard at the time of this investigation, and samples were collected only from accessible locations. ELM's Supplemental Site Investigation Report is included as Appendix C.

##### *Soil*

A total of five soil borings were advanced, using a track-mounted Geoprobe, to depths ranging from 9 to 15 ftbg. The locations of the borings were chosen based on the results of previous sampling data (2007), Site conditions, and access. Two (2) soil samples were collected from each completed boring to account for observed soil conditions in the shallow and deeper elevations of the soil/fill profile. As a default, one (1) sample was collected from the shallow zone (0-2 ftbg) and one (1) sample was collected from the interval directly above the groundwater table. However, in the event the soil or fill material exhibited obvious signs of impacts, sample intervals were adjusted to bias collection from the visually identified worst case intervals. Soil samples were analyzed for VOCs, SVOCs, Metals, PCBs and Pesticides.

##### *Groundwater*

Four (4) permanent monitoring wells were installed onsite during this investigation: one (1) upgradient monitoring well (MW-4) and one (1) crossgradient monitoring well (MW-3), were installed to assess the potential for offsite impacts to groundwater beneath the Site; and two (2) downgradient monitoring wells (MW-1 and MW-2) were installed to identify if offsite migration of contaminants was occurring at the Site.

Monitoring wells were installed using a track mounted Geoprobe, outfitted with 4¼" auger attachments to approximately 15 ftbg. All of the wells were constructed of 2" diameter PVC riser with 10' of .020" slotted PVC screen. The screen was installed with the intention of straddling the groundwater table from approximately 5' above to 5' below the groundwater/soil interface. Monitoring wells were installed concurrent with four (4) soil boring locations and were developed on the day of their installation to remove silt and sediment from the sand pack.

One week following the installation of the monitoring wells, groundwater samples were collected. Sampling was conducted according to EPA's *Low Flow Purging and Sampling*

*Procedures for the Collection of Groundwater Samples from Monitoring Wells* (Low Flow Procedures, January 2010). On August 10, 2012, four (4) groundwater samples were collected and analyzed for VOCs, SVOCs, Metals, PCBs and Pesticides.

Additionally, one (1) groundwater sample was analyzed for New York City Department of Environmental Protection (NYCDEP) Discharge Effluent Parameters in order to evaluate the presence of dissolved-phase constituents subject to the effluent limitations under the NYCDEP sewer discharge permit and to provide information to inform the potential need for a dewatering pre-treatment system.

#### *Soil Vapor*

A total of four (4) soil vapor samples were proposed onsite. Temporary soil vapor point installation and sampling was conducted on August 1, 2012 by Viridian Inc. All sampling was overseen by Integral. Locations required pre-coring through concrete to allow installation. During this portion of the SSI investigation refusal was encountered in three pre-cored locations. Subsequently, the soil vapor sampling locations were relocated to the nearest pre-cored soil boring location. Ultimately, one (1) of the four (4) soil vapor samples (SV-2), was eliminated due to the presence of high moisture within the sampling tube, making the sample unacceptable for proper analysis.

Soil vapor samples were collected using a probe with a retractable slotted tip advanced through the subsurface at the site and installed at a depth of approximately five (5) ftbg. As required by the New York State Department of Health (NYSDOH) Guidance, a helium (He) tracer was used as part of the sampling process, and the testing followed the NYSDOH guidance. Prior to sample collection, a multi-gas meter was used to measure the concentration of O<sub>2</sub>, CO<sub>2</sub>, and CH<sub>4</sub> in each probe, to assess the persistence of hydrocarbon vapors. Soil vapor samples were collected over a period of two hours and analyzed for VOCs.

### Findings

#### *Soil*

The results of the soil analysis were compared to NYSDEC Part 375 Unrestricted Use and Restricted Residential Use SCOs in conjunction with CP-51 SCLs. The Unrestricted Use SCOs are listed in 6 NYCRR Part 375-6.8(a). The Restricted-Residential Use SCOs are listed in 6 NYCRR Part 375-6.8(b) and October 21, 2010 NYSDEC Policy CP-51. The Unrestricted Use SCOs are generally the NYSDEC's most conservative cleanup objectives and represent the concentration of a contaminant in soil which, when present at or below this level on a site, will require no use restrictions for the protection of public health, groundwater and ecological resources. The Restricted Residential SCOs are use-based criteria that are compatible with the surrounding area and take into account the future usage of the Site combined with the implementation of institutional and/or engineering controls.

ELM's soil analytical results tables are included as Tables 2-6. Analytical results for soil samples indicate the following:

- No VOCs were detected above Restricted Residential SCOs. Acetone (a common laboratory contaminant) was detected at concentrations exceeding its respective Unrestricted SCO in both samples collected from boring SB-1. Its presence is believed to be a laboratory artifact;
- Shallow soil samples collected across the Site indicate the presence of several SVOCs consistent with those found in historic fill and historic Site usage;
- Lead was detected above Unrestricted SCOs in samples SB-1(13.5') and SB-4(4'). Mercury was detected above Unrestricted SCOs in samples SB-1(13.5'), SB-2(4'), SB-3(3') and SB-4(4'). Barium was detected above Restricted Residential SCOs in samples SB-3(3') and SB-4(4') and zinc was detected above Unrestricted SCOs in samples SB-3(3') and SB-4(4'); and
- PCBs and pesticides exceeded Unrestricted SCOs in one sample, SB-4(4')

#### *Groundwater*

Groundwater results were compared to TOGS AWQs. The TOGS AWQs represent levels that are protective of the groundwater as a source of drinking water; however, groundwater in New York City is not considered a potable source of water.

ELM's groundwater analytical results tables are included as Tables 7-11. Analytical results for groundwater samples indicate the following:

- Elevated concentrations of DCE and 1,1-dichloroethane above TOGS AWQs were detected in sample MW-2 and the quality control/quality assurance (QA/QC) duplicate sample taken from the same well;
- No concentrations of VOCs were detected above TOGS AWQs in groundwater samples collected from the other three wells; and
- Trace to low level concentrations of SVOCs exceeding TOGS AWQs were detected in samples MW-1 and MW-2.

#### *Soil Vapor*

The soil vapor results were compared to the NYSDOH indoor air guidance values (AGVs) found in the *Guidance for Evaluating Soil Vapor Intrusion in New York State* (NYSDOH 2006). While AGVs are guidance values for indoor air concentrations, they are used here as a screening level for soil vapor.

ELM's soil vapor analytical results table is included as Tables 12. Analytical results for soil vapor samples indicate the following:

- PCE exceeded its respective indoor air AGV of 100 µg/m<sup>3</sup> and 1,1,1-Trichloroethane was detected in all three (3) soil vapor samples;
- TCE exceeded its respective indoor air AGV of 5 µg/m<sup>3</sup> in two (2) of three (3) samples; and;

- DCE was detected in one (1) of three (3) samples.

### **2.2.2.3 Summary of Previous Investigations**

The following conclusions are based on the results of the investigations conducted prior to the Remedial Investigation that is the subject of this Report:

- SVOCs found in the shallow soils onsite are consistent with those found in historic fill;
- Heavy metals present in Site soils could be the result of current and historic Site usage; metals could also be attributed to the presence of fill across the Site;
- Preliminary redevelopment plans include the option for excavation and removal of all fill material within the Site boundary to the proposed development depth of 12 ftbg (below the water table interface). Excavation and proper disposal of Site soils will serve as the remedial alternative for addressing any compound exceedances in the soil;
- Waste characterization for excavated material that will be removed from the Site will be required. This should take into account varying types, sizes and classifications of fill material to appropriately manage the disposal effort;
- Dissolved metal concentrations in the groundwater beneath the Site are consistent with concentrations found in areas containing historic fill throughout the urban areas of New York City;
- Analysis of groundwater at the Site indicates a hydraulically downgradient (northwestern corner), localized presence of contamination consistent with degraded chlorinated solvents. Lack of detections of chlorinated VOCs in the central, northern and southern wells (MW-1, MW-3, and MW-4) indicate that upgradient groundwater had not been impacted;
- Based on the existing information there is no identified onsite source (e.g., a former drycleaner or tank); additional onsite investigation would need to be conducted in order to delineate the extent of the impact;
- Chlorinated solvent concentrations were detected in all three (3) soil vapor samples collected. Additional investigation (i.e., sub-slab and indoor air) will be necessary in order to evaluate the potential of actions associated with these results; and
- Proposed excavation below the groundwater table and placement of the building slab at this level will eliminate any sources of vapor that originate above the water table and allow for mitigation through engineering controls including a vapor barrier/passive venting system.

### **3 REMEDIAL INVESTIGATION**

This section provides a description of the methodologies used during the field investigation of the 514-520 West 28<sup>th</sup> Street Site. These field activities were conducted in accordance with the methods and procedures specified in the NYSDEC approved RIWP (Integral, 2013), the 6 NYCRR Part 375 Brownfield Cleanup Regulations and in general conformance with NYSDEC DER-10. Implementation of the RI took place from April 16 through April 23, 2013. All samples were collected in accordance with the approved Quality Assurance Project Plan (QAPP) and Field Sampling Plan (FSP). The RI scope of work included the advancement of soil borings, the installation of one monitoring well, and the sampling of soil/fill, native soil, concrete, soil vapor and groundwater.

The location and number of samples collected along with the corresponding analytical parameters are presented in the followings subsections. Descriptions of the field activities are included by task and/or environmental media. The RI sample locations are illustrated on Figure 10. A summary table of all RI sample locations, deviations and rationale is included as Table 13.

#### **3.1 CONCRETE CORING AND SAMPLING**

Due to the presence of a non-uniform and uneven concrete surface covering a majority of the Site that ranges in thickness from 12 to 48 inches, all sampling locations were pre-drilled using a concrete corer.

Six (6) samples of the concrete were collected from six (6) different cores: three (3) from the tops of individual cores (SB-12, SB-28 and SB-24) and three (3) from the bottoms of individual cores (SB-10, SB-17 and SB-11) and analyzed for PCBs via USEPA Method 8082. Concrete samples were chipped from individual cores using a hammer and placed into placed in laboratory supplied containers, sealed and labeled, and placed in a cooler and chilled to 4°C for transport under chain-of-custody procedures to Alpha Analytical Laboratory of Westborough, MA, NYSDOH ELAP #11148.

Concrete sample analytical results are discussed in Section 4.0

#### **3.2 SOIL BORING INSTALLATION AND SAMPLING**

The RI included 20 soil borings to investigate the potential of onsite soil sources, to further evaluate previously identified RECs/AOCs, and to investigate areas of the Site that have not been previously investigated and that were identified as data gaps. Soil boring locations are depicted on Figure 10.

Soil borings SB-7, SB-9, SB-10 and SB-11 were advanced in the northwestern portion of the Site, where chlorinated solvents were previously detected in groundwater and soil vapor. SB-11 was



a contingent boring, with its installation dependent on signs of impact in borings SB-7, SB-9, or SB-10. SB-11 was advanced due to low level PID readings observed in borings SB-7 and SB-10.

Soil borings SB-8, SB-12 through SB-15, SB-22, SB-23 and SB-25 through SB-28 were advanced in areas that were not previously accessible.

Soil borings SB-17 and SB-18 were advanced to the north and west, respectively, of the onsite inactive gasoline USTs previously identified by Impact in 2007 via GPR.

Soil borings SB-19, SB-20, and SB-21 were contingent borings radiating out from the gasoline USTs, to be advanced if there were obvious signs of impacts to SB-17 and SB-18. No visual or olfactory observations of impacts were observed in borings SB-17 and SB-18 and no PID readings were recorded; therefore, the above-mentioned contingent borings were not advanced.

Soil boring SB-24 was advanced downgradient of two inactive 550-gallon diesel USTs and in the relative upgradient portion of the Site in order to assess conditions along the eastern Site border and aid in the determining if an offsite (upgradient) source is present.

Refusal was encountered at three separate locations while attempting to advance soil boring SB-6 located upgradient of the chlorinated solvent contamination just outside of the northeastern Site boundary. No recovery was obtained from any of the attempts. It is believed, based on observations made in the field, that a concrete vault or utility structure may be located below the sidewalk in this area.

## Methodology

Soil borings were advanced subsequent to the performance of concrete coring at each location. The concrete surface varies in thickness over the Site; for the purposes of sample collection, grade is considered to begin at the top of concrete. Two (2) soil samples were collected from each completed boring. In general, one (1) sample was collected from the shallow zone (0-2 or 1-3 ftbg) and one (1) sample was collected directly above the groundwater interface (7-9 or 8-10 ftbg).

Continuous soil sampling was performed with a track mounted Geoprobe® utilizing direct push technology to the groundwater interface depth, approximately 8 to 10 ftbg. Continuous soil samples were collected using five (5) foot macrocore samplers fitted with dedicated acetate liners. The soil/fill retrieved from each sampler was field screened with a PID for VOCs and described by Integral field personnel on boring logs, included as Appendix D. Additionally, evidence of contamination (e.g., Non Aqueous Phase Liquid [NAPL], sheens, odors, staining, elevated PID readings) was documented by Integral field personnel.

Soil samples selected for laboratory analysis were placed in laboratory supplied containers, sealed and labeled, and placed in a cooler and chilled to 4°C for transport under chain-of-custody procedures. Soil samples were submitted to Alpha Analytical Laboratory of Westborough, MA, NYSDOH ELAP #11148, via courier service and analyzed for all of the compounds included in NYCRR Part 375 SCOs and Final CP-51 SCLs. Laboratory analytical

parameters and methods are outlined below. Sampling protocol and QA/QC procedures were followed in accordance with the approved FSP (Appendix E) and QAPP (Appendix F).

Soil samples were analyzed for the following parameters:

- VOCs via USEPA Method 5035/5035A;
- SVOCs via USEPA Method 8270C;
- Target Analyte List (TAL) Metals via USEPA Method 6010B/7470A;
  - Plus Cyanide via USEPA Method 9013;
  - Plus Hexavalent Chromium via USEPA Method 3060A;
- Polychlorinated Biphenyls (PCBs) via USEPA Method 8082; and
- Pesticides via USEPA 8081A.

Soil sample analytical results are discussed in Section 4.0

### **3.3 MONITORING WELL INSTALLATION AND SAMPLING**

The RI included the installation of one additional onsite monitoring well and the collection of one round of groundwater samples from existing and newly-installed wells in order to further characterize the groundwater at the Site. Monitoring well locations are depicted on Figure 10.

As discussed in Section 3.2, refusal was encountered at three separate locations while attempting to advance soil boring SB-6 located upgradient of the chlorinated solvent contamination just outside of the northeastern Site boundary. Upon successful completion of SB-6, the boring was to be converted into monitoring well MW-5. Due to the likely presence of an underground structure or vault in this area, proximity to High Line Park, and general vicinity of other monitoring wells, this well was eliminated and originally proposed MW-6 was designated MW-5.

Monitoring well MW-5 was installed in the northwestern portion of the Site, where chlorinated solvents were previously detected in groundwater and soil vapor.

Depth-to-groundwater measurements were collected from all five (5) wells on April 23, 2013 by Integral and surveyed on June 14, 2013 by Langan Engineering. A groundwater contour map is included as Figure 4.

As discussed in Section 1.2.2, during gauging of the monitoring wells, a thin layer of previously unidentified NAPL was found in MW-1. As a result, groundwater was not sampled from MW-1; however, a product sample was collected and submitted for gas chromatography-mass spectrometer fingerprint analysis, total petroleum hydrocarbon (TPH) analysis, and gasoline range organics (GRO) analysis.

## Methodology

The well construction for MW-5 is similar to previously installed wells MW-1 through MW-4 and follows the protocol described below. MW-5 was installed using a track mounted Geoprobe, outfitted with 4¼" hollow-stem auger attachments. MW-5 was installed to a depth of 15 ftbg, approximately 5' below the groundwater table, in order to collect samples in the shallow saturated zone and constructed of 2" diameter PVC riser with 10' of .020" slotted PVC screen. The screen interval straddles the groundwater interface. The annular space around the well was backfilled with No. 2 Morie quartz sand to a depth of 2' above the top of the well screen, followed by 2' of bentonite. The remainder of the annulus was backfilled with screened soil cuttings to approximately 6" below grade. MW-5 was finished with 6" of bentonite pellets placed below a locking flush-mounted road box, set in a cement apron, and was developed on the same day it was installed to clear the sand pack. Well construction logs are included as Appendix D.

Sampling of the monitoring wells took place approximately one week following the installation of MW-5. All wells were purged prior to sampling in accordance with DER-10 requirements. Upon completion of purging, one (1) representative groundwater sample was collected from each well, using dedicated polyethylene tubing attached to a peristaltic pump capable of low flow control. Water quality indicators (pH, temperature, specific conductivity, and turbidity) were monitored periodically while purging. Groundwater samples were collected according to EPA's *Low Flow Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells* (Low Flow Procedures, January 2010). Monitoring well purge logs are included as Appendix G. Sampling protocol and QA/QC procedures were followed in accordance with the approved FSP (Appendix E) and QAPP (Appendix F).

Groundwater samples were pumped directly into laboratory-supplied sample bottles. Samples were sealed, labeled, and placed in a cooler and chilled to 4°C for transport under chain-of-custody procedures. Groundwater samples were submitted to Alpha Analytical Laboratory of Westborough, MA, NYSDOH ELAP #11148, via courier service, and analyzed for the following parameters:

- VOCs via USEPA Method 8260B;
- SVOCs via USEPA Method 8270C;
- TAL Metals via USEPA Method 6010B/7470A (filtered and unfiltered);
- PCBs via USEPA Method 8082 (only new wells); and
- Pesticides via USEPA 8081A (only new wells).

Groundwater sample analytical results are discussed in Section 4.0.

### 3.4 SOIL VAPOR POINT INSTALLATION AND SAMPLING

The RI included the installation of eight (8) temporary soil vapor points, the collection of eight (8) soil vapor samples and one (1) ambient air sample for the purpose of further characterizing soil vapor at the Site. Viridian Environmental Field Services (Viridian) installed the temporary soil vapor points on April 18, 2013 and collected soil vapor samples on April 19, 2013. Soil vapor sample locations are depicted on Figure 10.

As part of the proposed development, the entire footprint of Site will be excavated to a depth at least reaching the groundwater table and possibly reaching approximately 12 ftbg. This excavation will remove any onsite source or hot spot of soil or vapor contamination, if either is present. The RI scope of work for the characterization of soil vapor onsite, focused on identifying areas where sources or hot spots may be present in order to address the potential for offsite migration of soil vapor and groundwater contamination, as well as the potential for onsite migration of contaminants from offsite sources.

As discussed in Section 3.2, refusal was encountered at three separate locations while attempting to advance soil boring SB-6, located upgradient of the chlorinated solvent contamination identified at the northeastern Site boundary. Soil vapor point/sample (SV-5) was proposed to be installed concurrent with SB-6. However, a soil vapor sample could not be collected due to the likely presence of an underground vault beneath the sidewalk in this area.

Temporary soil vapor points SV-6, SV-7 and SV-9 were installed along the downgradient Site boundary to assess potential impacts to the adjacent building.

Temporary soil vapor points SV-8, SV-10 and SV-11 were installed along the southern Site boundary to assess if an offsite source is present or if there is potential for residual onsite contamination, if present, to migrate offsite.

Temporary soil vapor point SV-12 was installed along the eastern Site boundary to assess if an offsite source is present.

#### Methodology

Each soil vapor point was installed using dedicated 1/8" Teflon tubing. The tubing was implanted into the hole and the annular space sealed with bentonite to prevent ambient air from entering the area around the point. Once the seal was secure, a "T" fitting and valve was connected on the above-surface end of the tubing. A syringe was used to purge the vapors in the probe and tubing of three volumes. As required by NYSDOH, a helium (He) tracer was used as part of the sampling process; all testing followed the NYSDOH Soil Vapor Guidance.<sup>5</sup> Prior to sample collection, the He vapor was screened using a field meter and the measurement

---

<sup>5</sup> *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Final*. October 2006.

recorded at each soil vapor sampling location. Prior to sample collection, a multi-gas meter was used to measure the concentration of O<sub>2</sub>, CO<sub>2</sub>, and CH<sub>4</sub> in each probe, to assess the persistence of hydrocarbon vapors. Following this procedure, each soil vapor sample was collected in clean, batch certified, two (2) liter Summa™ canisters at flow rates no greater than 200 ml/min.

In general, all temporary soil vapor points were installed with an associated soil boring. All soil vapor samples were collected following a 24 hours period after installation. Soil vapor sample collection was performed over a two (2) hour period. Samples were submitted to Alpha Analytical Laboratory of Westborough, MA, NYSDOH ELAP #11148, via courier under standard chain of custody procedures.

#### Ambient Air Sample

Background (ambient) air commonly contains VOCs at measurable but low concentrations, and can contribute a positive bias to soil vapor samples. To characterize such “background” concentrations, an ambient working conditions air sample was collected along with the soil vapor samples. The ambient air sample was collected using a clean, batch certified Summa™ canister over an 8-hour period. The Summa™ canister was placed at a height of 5-7 feet above grade to simulate breathing zone elevation.

Sampling protocol and QA/QC procedures were followed in accordance with the approved FSP (Appendix E) and QAPP (Appendix F).

Soil vapor and indoor air samples were analyzed for VOCs via USEPA Method TO-15.

### **3.5 INVESTIGATION DERIVED WASTE**

Soil cuttings and groundwater generated during Site characterization activities were placed back in the borehole or in the vicinity of the borehole. In addition, wastes, such as used personal protective equipment (PPE), that were generated during sampling and drilling activities, were disposed of in municipal trash dumpsters onsite.

### **3.6 HEALTH AND SAFETY PLAN (HASP)**

All work at the Site was completed in accordance with the Health and Safety Plan (HASP) included as Appendix G.

### **3.7 QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)**

Samples collected during the RI were collected in accordance with the approved QAPP included as Appendix F.

A Data Usability Summary Report (DUSR) is being prepared by an independent sub-consultant for the purpose of data validation and will be included with the submission of the final RIR. The

DUSR, electronic data summary, and laboratory data packages will be included as Appendix H of the final RIR.

### **3.8 SUMMARY TABLE OF PROPOSED SAMPLING LOCATIONS**

As required by Section 3.3(b) 3 of DER-10, a sampling and analysis table with all proposed sampling locations and QA/QC samples was included in the RIWP. This table has been updated to reflect the deviations discussed in Sections 3.2 through 3.4 and is included as Table 13.

### **3.9 AIR MONITORING**

During soil boring and monitoring well installation, community air monitoring was conducted by locating a PID along the work zone perimeter (upwind and downwind) and continuously measuring ambient VOC concentrations. The PID was equipped with an audible alarm and capable of calculating 15-minute running average concentrations, which were compared to programmed action levels. The PID was calibrated at least once daily. Upwind VOC concentrations were measured at the start of each work day and periodically thereafter to establish background conditions. VOC concentrations were measured from the downwind station at a minimum of once every two hours.

## **4 REMEDIAL INVESTIGATION RESULTS**

Section 4 presents the results and findings for work completed as part of the RI. This includes soil and groundwater sampling, soil vapor and ambient air sampling, and forensic fingerprinting of NAPL. A summary of the analytical results of the RI are summarized in Tables 14 through 25.

### **4.1 SOIL**

A total of 42 soil samples (including 2 duplicates) were collected as part of this RI. Soil boring locations are depicted on Figure 10. PID readings were detected in six (6) of the 42 samples and ranged from 2.8 ppm in sample SB-24[1-3] to 21.3 ppm in sample SB-11[1-3]. The remaining 36 soil samples exhibited no PID readings. PID readings are included in the boring logs provided as Appendix D. A summary of the soil analytical results of the RI are summarized in Tables 14 - 19.

#### **4.1.2 Applicable Regulatory Standards for Soil**

The results of the soil analysis were compared to the NYSDEC Unrestricted Use Soil Cleanup Objectives (SCOs) and the NYSDEC Restricted Residential Use Soil Cleanup Objectives. The purpose of comparing the analytical results to both SCOs is that the proposed foundation may allow for a complete removal of underlying material into and below the water table, the removal of which may allow for a Track 1 cleanup.

The Unrestricted Use SCOs are listed in 6 NYCRR Part 375-6.8(a); the restricted Residential SCOs are listed in 6 NYCRR Part 375-6.8(b). The Unrestricted Use SCOs are generally the NYSDEC's most conservative cleanup objectives and represent the concentration of a contaminant in soil which, when achieved at a site, will require no use restrictions on the site for the protection of public health, groundwater and ecological resources due to the presence of contaminants in the soil. The Restricted Residential SCOs are use-based criteria that are compatible with the surrounding area and take into account the future usage of the Site combined with the implementation of institutional and engineering controls.

### 4.1.3 Soil Results

#### 4.1.4 VOCs

Analytical results for VOCs indicate SCO exceedences in 2 of 42 soil samples. Vinyl chloride was detected in sample SB-7 [0-2]<sup>6</sup> at a concentration of .37 mg/kg, exceeding its Unrestricted SCO of .02 mg/kg. Naphthalene was detected in sample SB-27 [1-3] at a concentration of 1,000 mg/kg, exceeding its Restricted Residential SCO of 100 mg/kg.

##### 4.1.4.1 SVOCs

Analytical results for SVOCs indicate that concentrations of various SVOCs exceeded their respective Unrestricted or Restricted Residential SCOs in 16 of 42 soil samples, with the majority of the exceedences occurring in shallow samples [0-2 or 1-3 ftbg]. These samples are SB-10[8-10]; SB-16[1-3], SB-16[7-9]; SB-17[1-3], SB-17 [7-9]; SB-11[1-3]; SB-7B[0-2] and SB-7B[7-9]; SB-26[0-2]; SB-7A[0-2]; SB-9[1-3]; SB-18[1-3]; SB-22[0-2]; SB-25[1-3]; and SB-27[1-3].

Concentrations of benzo(a)anthracene and indeno(1,2,3-cd)pyrene exceeded their respective Restricted Residential SCOs (1 mg/kg and 0.5mg/kg respectively) in one sample ( SB-22[0-2].

Concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene exceeded their respective Restricted Residential SCOs ( 1 mg/kg, 1 mg/kg, 1 mg/kg and .5 mg/kg respectively) in 15 of the above-referenced soil samples.

Eight (8) the above-referenced 16 soil samples also exhibited concentrations of chrysene and dibenzo(a,h)anthracene exceeding their respective Restricted Residential SCOs (3.9 mg/kg and .33 mg/kg respectively), and six (6) above-referenced soil samples exhibited exceedences of either chrysene or dibenzo(a,h)anthracene above either Unrestricted SCOs(1 mg/kg and .33 mg/kg respectively) or Restricted Residential SCOs.

Benzo(k)fluoranthene exceeded its Unrestricted SCO of .8 mg/kg in seven (7) of the above-referenced 16 soil samples, it exceeded its Unrestricted and Restricted Residential SCO of 3.9 mg/kg in six (6) samples.

Concentrations of phenol exceeded its Unrestricted SCO of .33 mg/kg in three (3) of the above-referenced soil samples (SB-26[0-2], SB-7A[0-2] and SB-27[1-3]).

Concentrations of anthracene, dibenzofuran, fluoranthene, fluorene, phenanthrene and pyrene were detected exceeding their respective Restricted Residential SCOs (100 mg/kg for

---

<sup>6</sup> Four samples were collected from SB-7; two on April 16<sup>th</sup> and two on April 19<sup>th</sup> when the boring was inadvertently re-drilled. The exceedences discussed above are from sample the April 16<sup>th</sup> which for the purposes of discussion will be renamed SB-7A; sample SB-7 that was collected on the 19<sup>th</sup> will be renamed SB-7B.



anthracene, 59 mg/kg for dibenzofuran and 100 mg/kg for the remaining compounds) in two (2) of the above-referenced 15 samples (SB-16[1-3] and SB-27[1-3]).

Naphthalene was detected at 130 mg/kg in sample SB-27[1-3] exceeding its Restricted Residential SCO of 100 mg/kg; it exceeded its Unrestricted SCO of 12 mg/kg in sample SB-16[1-3].

SVOC exceedences for Unrestricted SCOs in soil samples are depicted on Figure 11. SVOC exceedences for Restricted Residential SCOs in soil samples are depicted on Figure 12.

#### **4.1.4.2 Metals**

##### Unrestricted SCOs

Lead was detected at concentrations ranging from 65 mg/kg to 310 mg/kg in 9 of 42 soil samples, exceeding its Unrestricted SCO of 63 mg/kg.

Mercury was detected at concentrations ranging from .22 mg/kg to .75 mg/kg in 11 of 42 soil samples, exceeding its Unrestricted SCO of .18 mg/kg.

Arsenic was detected at 14 mg/kg in sample SB-14[0-2] and 16 mg/kg sample SB-13[1-3], exceeding its Unrestricted SCO of 13 mg/kg.

##### Restricted Residential SCOs

Lead was detected at concentrations ranging from 410 mg/kg to 4,500 mg/kg in 17 of 42 soil samples, exceeding its Restricted Residential SCO of 400 mg/kg.

Mercury was detected at concentrations ranging from .95 mg/kg to 12 mg/kg in 17 of 42 soil samples, exceeding its Restricted Residential SCO of .81 mg/kg.

Arsenic was detected at concentrations ranging from 17 mg/kg to 28 mg/kg in 3 of 42 soil samples, exceeding its Restricted Residential SCO of 16 mg/kg.

Soil throughout the Site was found to contain a variety of metals in addition to the ones discussed above, including: barium, cadmium, copper, nickel, silver and zinc. Metal concentrations in Site soils are consistent with historic fill and historic usage of the Site.

Metals exceedences for Unrestricted SCOs in soil samples are depicted on Figure 13. Metal exceedences for Restricted Residential SCOs in soil samples are depicted on Figure 14.

#### **4.1.4.3 PCBs**

Concentrations of PCBs exceeding Unrestricted SCO were detected in 11 of 42 soil samples.

All PCB concentrations detected exceeding Restricted Residential SCOs were found in shallow soil samples.

Aroclor 1254 was detected at concentrations ranging from 1.1 mg/kg to 1.59 mg/kg in four (4) of 42 soil samples, exceeding its Restricted Residential SCO of 1.0 mg/kg.

Aroclor 1242 was detected at concentrations ranging from 3.8 mg/kg to 12.5 mg/kg in four (4) of 42 soil samples, exceeding its Restricted Residential SCO of 1.0 mg/kg.

Aroclor 1260 was detected at 1.65 mg/kg in sample SB-26[0-2], exceeding its Restricted Residential SCO of 1.0 mg/kg.

#### **4.1.4.4 Pesticides**

4,4'-DDD was detected at concentrations ranging from .00338 mg/kg to .0224 mg/kg in six (6) of 42 soil samples, exceeded its Unrestricted SCO of .0033 mg/kg.

Dieldrin was detected at concentrations ranging from .00926 mg/kg to .0314 mg/kg in five (5) of 42 soil samples, exceeding its Unrestricted SCO of .005 mg/kg.

No pesticide concentrations were detected exceeding Restricted Residential SCOs.

## **4.2 CONCRETE**

Six (6) concrete samples were collected from six (6) different cores: three (3) from the tops of individual cores and three (3) from the bottoms of individual cores. Samples of the concrete were analyzed for PCBs via USEPA Method 8082.

Aroclor 1254 was detected at 0.123 mg/kg in sample SB-17[CON BOT], exceeding its Unrestricted SCO of .1 mg/kg.

No concrete samples PCB concentrations were detected above Restricted Residential SCOs.

## **4.3 GROUNDWATER**

Four (4) groundwater samples, one (1) duplicate sample and one (1) NAPL sample were collected as part of the RI. Monitoring well locations are depicted on Figure 10. All groundwater samples were analyzed for VOCs, SVOCs, and filtered and unfiltered metals. Groundwater sample MW-5 was also analyzed for PCBs and Pesticides. Groundwater was not collected from

monitoring well MW-1 due to the presence of approximately 1/8" of NAPL, however a sample of the NAPL was collected and analyzed for GRO, total petroleum hydrocarbons (TPH) and a fingerprint analysis was performed. A summary of the groundwater analytical results of the RI are summarized in Tables 20 – 24.

### **4.3.1 Applicable Regulatory Standards for Groundwater**

The results of the groundwater analysis were compared to New York State Division of Water Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards (AWQSs) and Guidance Values and Groundwater Effluent Limitations. TOGS standards and guidance values are ambient water quality values that are set to protect the state's waters.

### **4.3.2 Groundwater Results**

#### **4.3.2.1 VOCs**

Cis-1,2-dichloroethene (DCE) was detected MW-5 at 6.6 µg/L and its associated duplicate sample, MW-5 Dup at 7.0 µg/L, exceeding its TOGS AWQS of 5 µg/L. Groundwater sample results for VOCs are depicted on Figure 15.

#### **4.3.2.2 SVOCs**

No SVOCs were detected above TOGS AWQS.

#### **4.3.2.3 Metals**

Groundwater throughout the Site was found to contain a variety of total metals, the following of which exceeded TOGS AWQS in one or more samples: antimony, chromium, iron, lead, magnesium, manganese, nickel, selenium and sodium. Analysis for dissolved metals however, detected only iron, magnesium, manganese, selenium, sodium and thallium at concentrations that exceeded TOGS AWQS. A dissolved metals analysis of groundwater is performed by removing the particulates found in the sample with a filter, then analyzing the filtered water for metals. Sediment particulates can result in an erroneous detection of metal concentrations. Concentrations of detected metals are depicted on Figure 16.

#### **4.3.2.4 PCBs**

No PCBs were detected above TOGS AWQS in sample MW-5 or its associated duplicate sample MW-5 DUP.

#### **4.3.2.5 Pesticides**

No PCBs were detected above TOGS AWQS in sample MW-5 or its associated duplicate sample MW-5 DUP.

#### **4.3.2.6 NAPL Analysis**

NAPL collected for MW-1 indicated the following: GRO was detected at a concentration of 10,000 µg/kg and TPH was detected at 773,000 µg/kg. A forensic fingerprint analysis of the sample was performed by Alpha Analytical. The data generated and the qualitative information assessed from the chromatographic pattern recognition and boiling point ranges, indicated that the material is similar in nature to lubricating, motor or synthetic oil-like product. The GC-FID Chromatogram suggests motor oil. This result indicates the oil identified may not represent the gasoline product reported to be in the underground tanks on the Site.

### **4.4 SOIL VAPOR**

Seven (7) soil vapor samples, one (1) duplicate sample and one (1) ambient air sample was collected as part of the RI. Soil vapor sample locations are depicted on Figure 10. A summary of the soil vapor analytical results of the RI are summarized in Table 25.

#### **4.4.1 Applicable Regulatory Standards**

Soil vapor sample results were compared to NYSDOH Soil Vapor/Indoor Air Matrix 1 and 2 found in the *Guidance for Evaluating Soil Vapor Intrusion in New York State* (NYSDOH 2006) and the NYSDOH Memorandum dated June 25, 2007, which added three additional VOCs to the soil vapor/indoor air decision matrix. The NYSDOH Matrices are used for evaluating human health risk and are based on the relationship between sub-slab soil vapor concentrations and corresponding indoor air concentrations. These matrices are risk management tools, developed by the NYSDOH in conjunction with other agencies, to provide guidance on case-by-case basis regarding actions that should be taken to address current and potential exposures related to soil vapor intrusion. The matrices are intended to be used when evaluating the results from buildings with full slab foundations. Currently, the Site is not improved with any buildings and development plan includes the excavation of Site soils into the water table. As a result, potential offsite migration of vapors into neighboring buildings is the focus of the RI soil vapor investigation.

In this case, comparing perimeter soil vapor sampling results to the sub-slab vapor concentration range column of the NYSDOH Matrix (Matrix 1 for TCE and Matrix 2 for PCE), allows a comparison to be made relevant to the adjacent lots in order to evaluate the probability of offsite indoor air impacts.

#### **4.4.2 Soil Vapor Results**

Laboratory analysis of soil vapor showed PCE to be present in all seven soil vapor samples and the duplicate. TCE was detected in five (5) of the seven (7) soil vapor samples and the duplicate. A comparison of PCE concentrations in the soil vapor samples collected to the sub-slab concentration column of Matrix 2 indicates that all concentrations of PCE are below the action level that requires specific mitigation. A comparison of TCE concentrations in soil vapor samples collected to the sub-slab concentration column of Matrix 1 indicates that concentrations of TCE that were detected in samples collected adjacent to buildings were all either in the lowest category (no further action) or at a concentration where some action (monitoring or mitigation) could be required, dependent upon indoor air concentrations. Sample SV-9, collected along the western site boundary is the exception, with a detected TCE concentration that requires mitigation regardless of indoor concentration (above 250 µg/m<sup>3</sup>). Soil vapor sample results are depicted on Figure 17.

An offsite investigation was performed as part of this investigation and will be incorporated in the final Remedial Investigation Report.

## 5 QUALITATIVE EXPOSURE ASSESSMENT

A qualitative exposure assessment (EA) has been completed in accordance with Section 3.3(c)4 of DER-10 and the NYSDOH guidance for performing a qualitative EA (NYSDEC DER-10; Technical Guidance for Site Investigation and Remediation; Appendix 3 B).

The objectives of the qualitative exposure assessment are to evaluate and document how humans might be exposed to Site-related contaminants and to assess whether there are any complete or potentially complete exposure pathways now and under the reasonably anticipated future land use(s) of the Site.

An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site. An exposure pathway has five elements: (1) a contaminant source; (2) contaminant release and transport mechanisms to an exposed population; (3) a receptor population; (4) a route of exposure; and (5) a point of exposure to a receptor population. The following sections discuss the potential exposure pathways to chlorinated solvents at the Site. A table describing the environmental media, potential exposure routes and a human exposure assessment is included at the end of this section.

### 5.1 CONTAMINANT SOURCES

The contaminants of concern at the Site for this RI include SVOCs, metals, and chlorinated solvents, specifically PCE, TCE and DCE. SVOCs and metals have been detected in soil above applicable regulatory levels. Metals and DCE have been detected in groundwater above applicable regulatory levels and PCE and TCE have been detected in soil vapor. SVOCs and metals were detected in soils throughout the Site. DCE was detected in one groundwater sample located in the northwest section of the Site, which is hydraulically cross-gradient. PCE was detected in all seven (7) soil vapor samples collected onsite, and TCE was detected in five (5) of seven (7) soil vapor samples. The SVOC and metals contamination in soil is consistent with historic fill. Historic operations at the Site could have contributed to metals contamination in soil and groundwater. Historical operations at the Site are not indicative of chlorinated solvent contamination. There is, however, a well-documented upgradient source of chlorinated solvent contamination in groundwater. The Site is located in area of west Chelsea that known for elevated background concentrations of chlorinated solvents in groundwater. These concentrations could be contributing to chlorinated solvent concentrations found in the soil vapor onsite. Elevated concentrations of chlorinated solvent found in the soil vapor onsite could also be the result of hot spot impacts.

## **5.2 CONTAMINANT RELEASE AND TRANSPORT MECHANISMS**

The source of soil contaminants is historic fill, with historic Site operations potentially contributing to the metals concentrations. The source of the groundwater contaminants is likely an upgradient, off-site source based on the distribution and local background concentration; no onsite source has been identified and the lack of chlorinated solvent impacts to soil across the Site does not support the presence of onsite source. Elevated groundwater concentrations can potentially impact the soil vapor at the Site.

## **5.3 POTENTIAL RECEPTOR POPULATIONS**

The potential onsite receptors include Site workers (primarily environmental professionals and contractors), construction workers, visitors or trespassers. Future potential onsite receptors include residents, their visitors and building workers. The potential offsite receptors include offsite workers and offsite residents.

## **5.4 POTENTIAL ROUTES AND POINTS OF EXPOSURE**

Dermal contact and inhalation of SVOCs and metals in soil is expected to be limited to construction workers performing excavation at the Site. The majority of the Site is currently covered with an asphalt or concrete cap.

Concentrations of DCE were detected above TOGS AWQs, which were developed to be protective of public health based upon groundwater as a potential drinking water source. While concentrations DCE exceed TOGS AWQs, exposure to contaminants via drinking water is not applicable to the Site given the depth to water, the fact that the Site and surrounding community are supplied by an upstate New York municipal system, and the current (vacant) land use at the Site.

Dermal and inhalation exposure to VOCs in groundwater, based on the depth to groundwater, is expected to be limited to Site workers collecting groundwater samples for environmental analysis.

There is little potential for volatilization of chlorinated solvents to migrate into ambient air as the majority of the Site is capped with an asphalt or concrete slab. Ambient air, was tested in April 2013, and no evidence of elevated chlorinated solvents was detected.

The proposed redevelopment of the Site includes the excavation of the entire parcel footprint to a depth at least reaching the groundwater table and possibly reaching approximately 12 ftbg. Excavation of this entire volume of material will remove any onsite soil source from hot spots (if present). The development will also incorporate, as additional measures, engineering controls to protect against additional offsite sources known to exist in the area.

## 5.5 SUMMARY OF QUALITATIVE EXPOSURE ASSESSMENT

The table below summarizes the environmental media and potential exposure routes and presents a human exposure assessment for each.

Potential Exposure Route	Human Exposure Assessment
Dermal contact with soil/ Inhalation of dust	<ul style="list-style-type: none"><li>• Exposure would be avoided by having workers conducting subsurface work be properly trained and should complete this work using procedures specified in a HASP.</li></ul>
Ingestion of groundwater	<ul style="list-style-type: none"><li>• Groundwater is not used as a potable source for the Site or surrounding community.</li></ul>
Dermal contact with groundwater/ Inhalation of volatile groundwater constituents	<ul style="list-style-type: none"><li>• Exposure would be avoided by having environmental professionals sampling groundwater adhering to a HASP.</li></ul>
Inhalation of vapors	<ul style="list-style-type: none"><li>• Elevated ambient levels are not currently present.</li><li>• Exposure of future building residents and workers to chlorinated solvents in indoor air will be avoided by engineering controls</li></ul>



## **6 CONCLUSIONS**

### **6.1 SOIL**

The results of the RI and previous investigations indicate SVOC and metal concentrations in Site soils consistent with historic fill and historic Site operations. Minor VOC and PCB exceedences could represent the presence of hot spots. The results, however, do not indicate significant issues or releases from the former Site operations. No petroleum related impacts were found in soil samples collected from borings advanced in the vicinity of the onsite USTs.

Current redevelopment plans for the Site include excavation and removal of all soil and fill material within the Site boundary, and above and into the water table. Excavation of Site soils will address any compound exceedences or hot spots.

### **6.2 GROUNDWATER**

Groundwater results from the RI and previous investigations show that elevated concentrations of chlorinated solvents vary significantly and indicate a potential offsite source. Chlorinated solvent contamination is not consistent with historic Site operations and is not present Site-wide. DCE was identified in crossgradient well MW-2 in June of 2012 and not detected in April of 2013, but identified in newly installed MW-5.

Without any major disturbance of the soil and groundwater having occurred in this period, and with the existence of a well-known background concentration of chlorinated solvents emanating from an upgradient source in the area, it is reasonable to interpret the groundwater impacts as the result of an offsite or background source.

### **6.3 SOIL VAPOR**

The results of the soil vapor investigation indicate that elevated concentrations of chlorinated solvents are present in soil vapor around the western and southern Site perimeters. These concentrations may be the result of off-gassing from groundwater, localized hot spots or migration from offsite sources.

An offsite soil vapor investigation was performed in June 2013. The results of this investigation will be included in the Final RIR.

Excavation of the Site into and below the groundwater table will eliminate any onsite soil source of soil vapor contamination.

## **6.4 ONSITE SPILL**

Previous investigations conducted around USTs found no obvious petroleum impacts. However, during the performance of the RI, Integral observed approximately 1/8" of what appeared to be NAPL in monitoring well MW-1, located approximately 25 feet west of the USTs. Subsequently, Integral reported a spill on April 23, 2013, and NYSDEC assigned Spill No. 1300765 to the Site.

A NAPL sample was collected for fingerprint analysis, the results of which indicated that the material was similar to lubricating, motor or synthetic oil like product. This result indicates the oil identified may not represent the gasoline product reported to be in the underground tanks on the Site.

Spill No. 1300765 will be addressed through the implementation of an Interim Remedial Measure (IRM), which includes excavation and proper decommissioning of the onsite USTs.

## 7 REFERENCES

NYSDEC 2010. New York State Department of Environmental Conservation, Division of Environmental Remediation. DER Technical Guidance for Site Investigation and Remediation (DER-10). 2010.

NYSDEC 2010. New York State Department of Environmental Conservation DEC Policy. Commissioner's Policy 51 – Soil Cleanup Guidance. October 21, 2010.

New York State Department of Environmental Conservation, (2006). 6 NYCRR Part 375 Environmental Remediation Programs. Division of Environmental Remediation, December, 2006.

New York State Department of Environmental Conservation, (as revised June 1998) Division of Water Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Effluent Limitations.

New York State Department of Environmental Conservation, (2007). Guidance for the Development of Quality Assurance Plans and Data Usability Summary Reports (DUSR), September 2007.

New York State Department of Environmental Conservation (undated), DER-23 Citizen Participation Handbook for Remedial Programs, Division of Environmental Remediation.

Merguerian, C., and Baskerville, C., 1987, The geology of Manhattan Island and the Bronx, New York City, New York: in D.C. Roy, ed., Northeastern Section of the Geological Society of America, Centennial Fieldguide, p. 137-140.

"Phase I Environmental Site Assessment, 505 West 27<sup>th</sup> Street, New York, New York," dated June 15, 2007. Prepared by Impact Environmental.

"Phase II Environmental Site Assessment, Limited Subsurface Investigation, 505 West 27<sup>th</sup> Street, New York, New York," dated June 22, 2007. Prepared by Impact Environmental.

"Supplemental Site Investigation Report, 505 West 27<sup>th</sup> Street, New York, New York 10001," dated September 5, 2012. Prepared by ELM Engineering, P.C.

## FIGURES

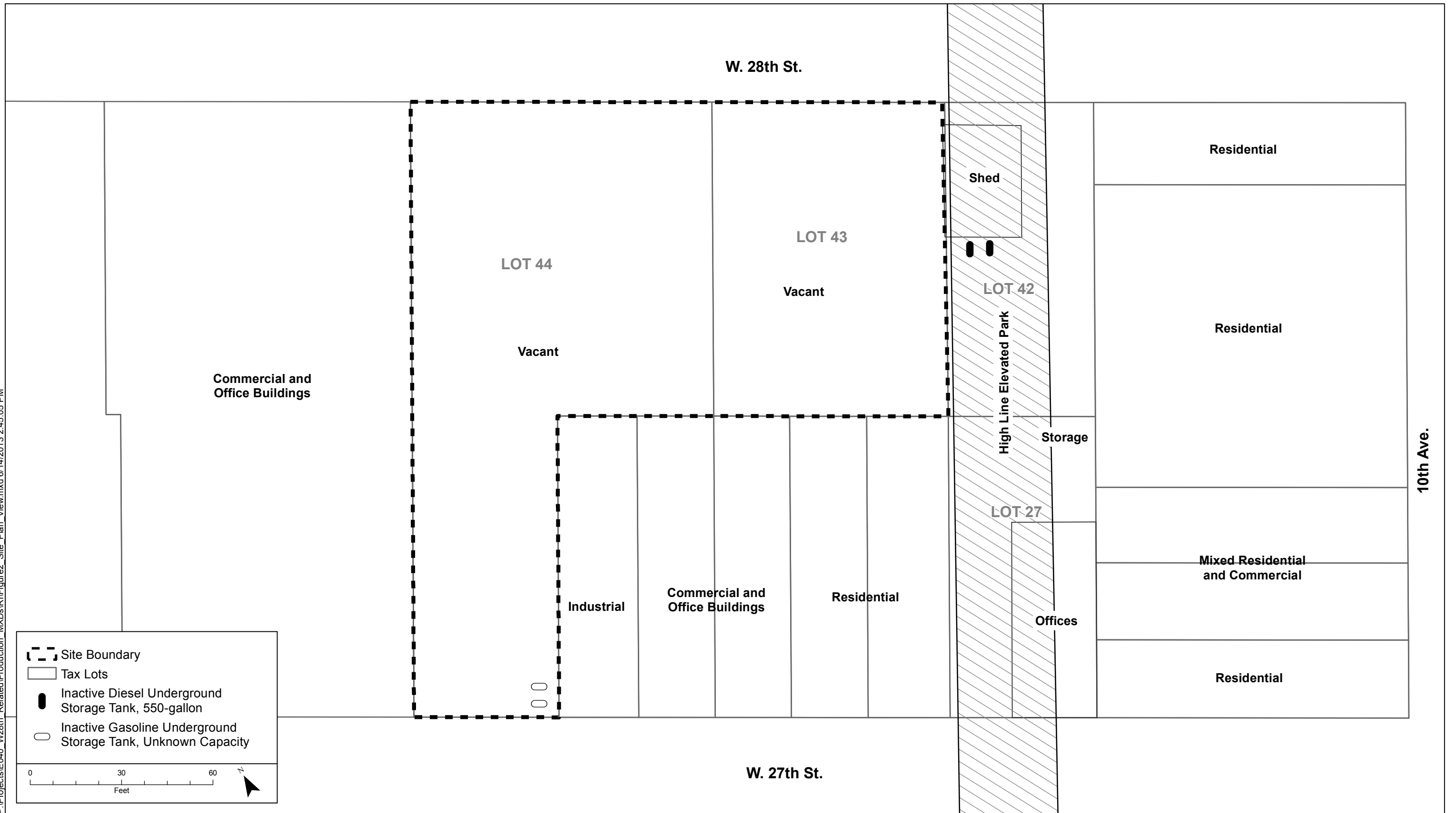
---



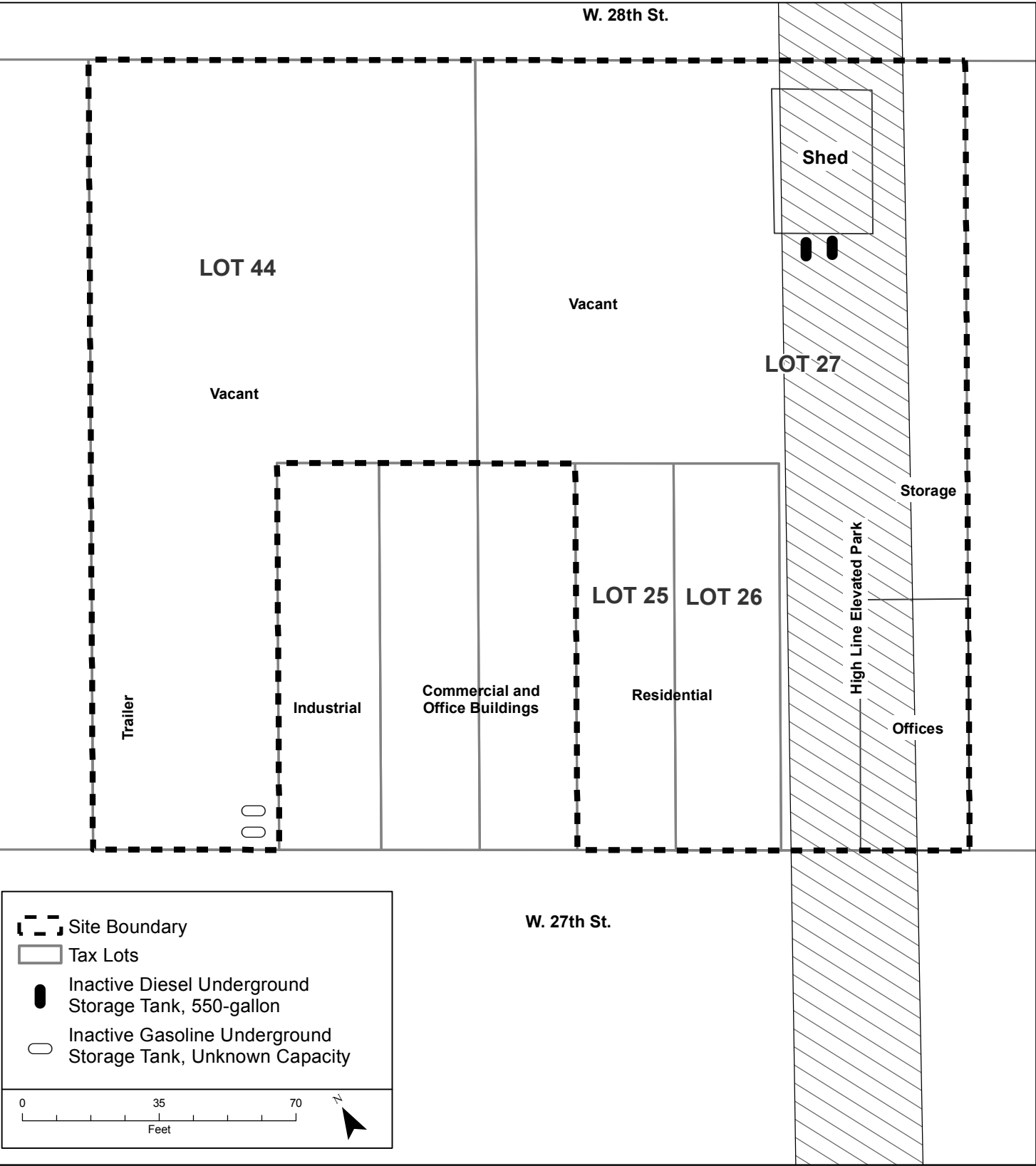




P:\Projects\EO40\_W28th\_Related\Production\_MXD\Site\Figure2\_Site\_Plan\_View.mxd 6/14/2013 2:45:05 PM

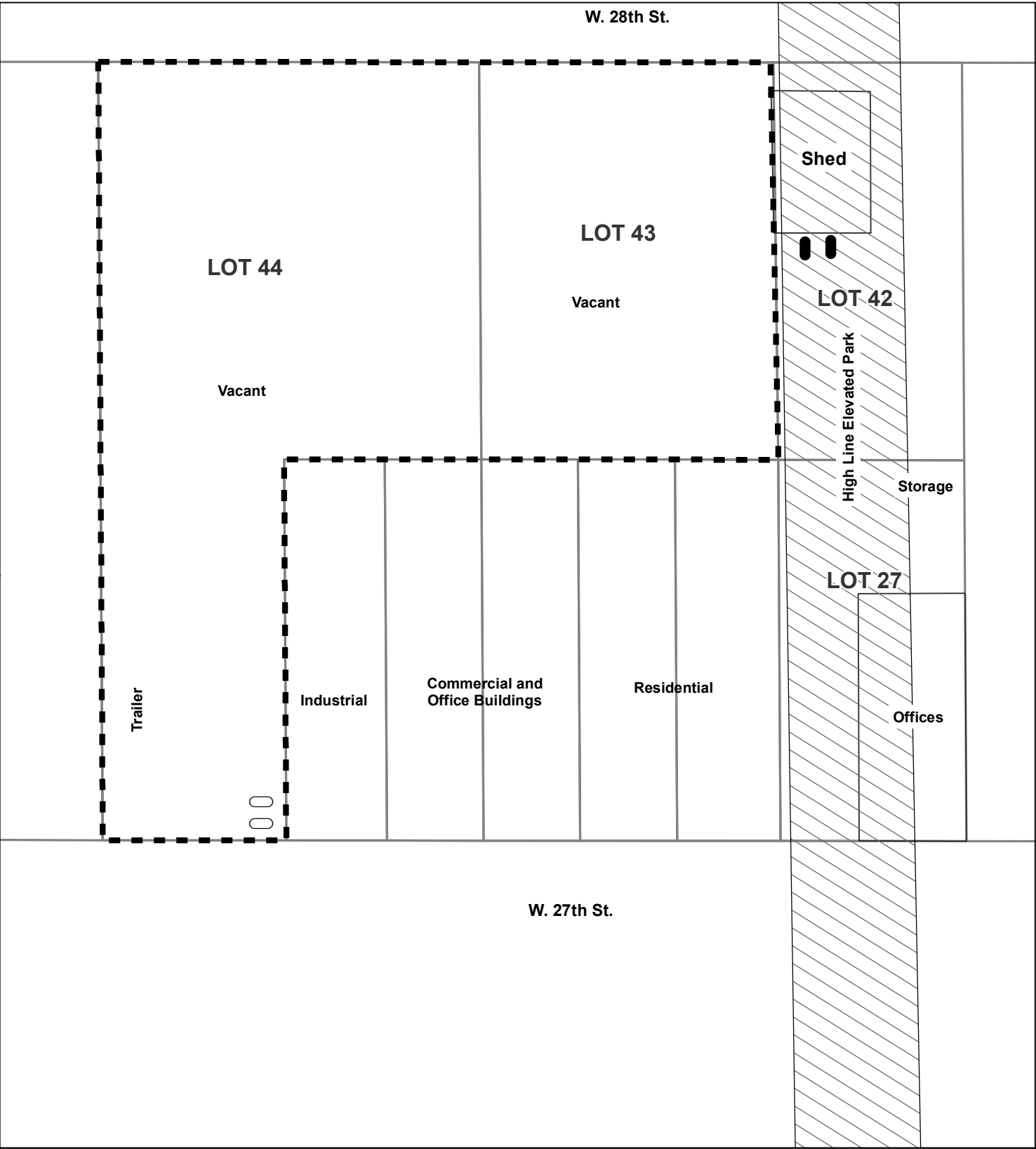


Previous 2007 Site Boundary and Tax Lot Delineations



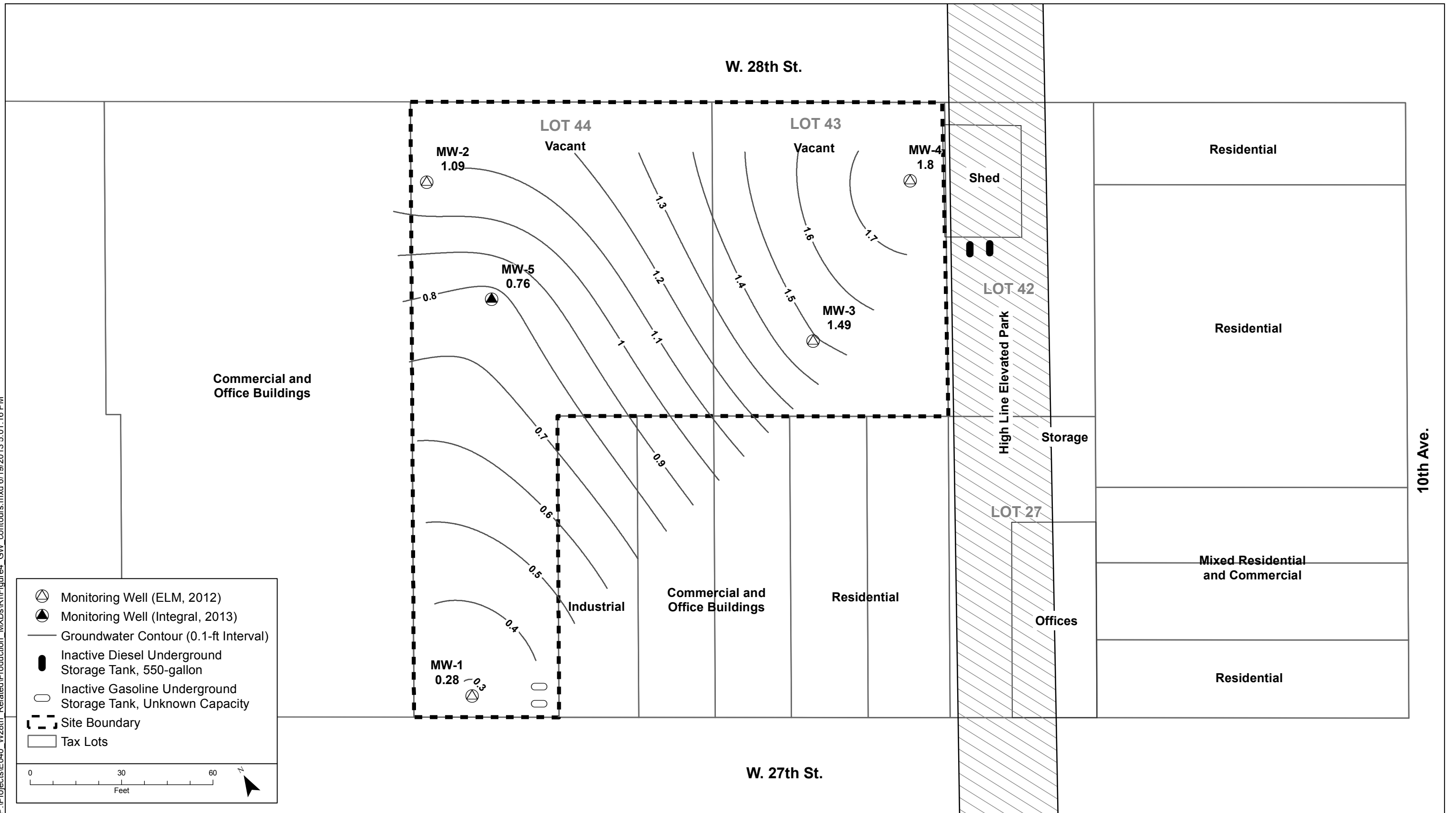
**Note:**  
Previous Site Boundary and Lot Delineations - 2007 Investigations.  
Current Site Boundary and Lot Delineations - 2012 Investigation.

Current Site Boundary and Tax Lot Delineations



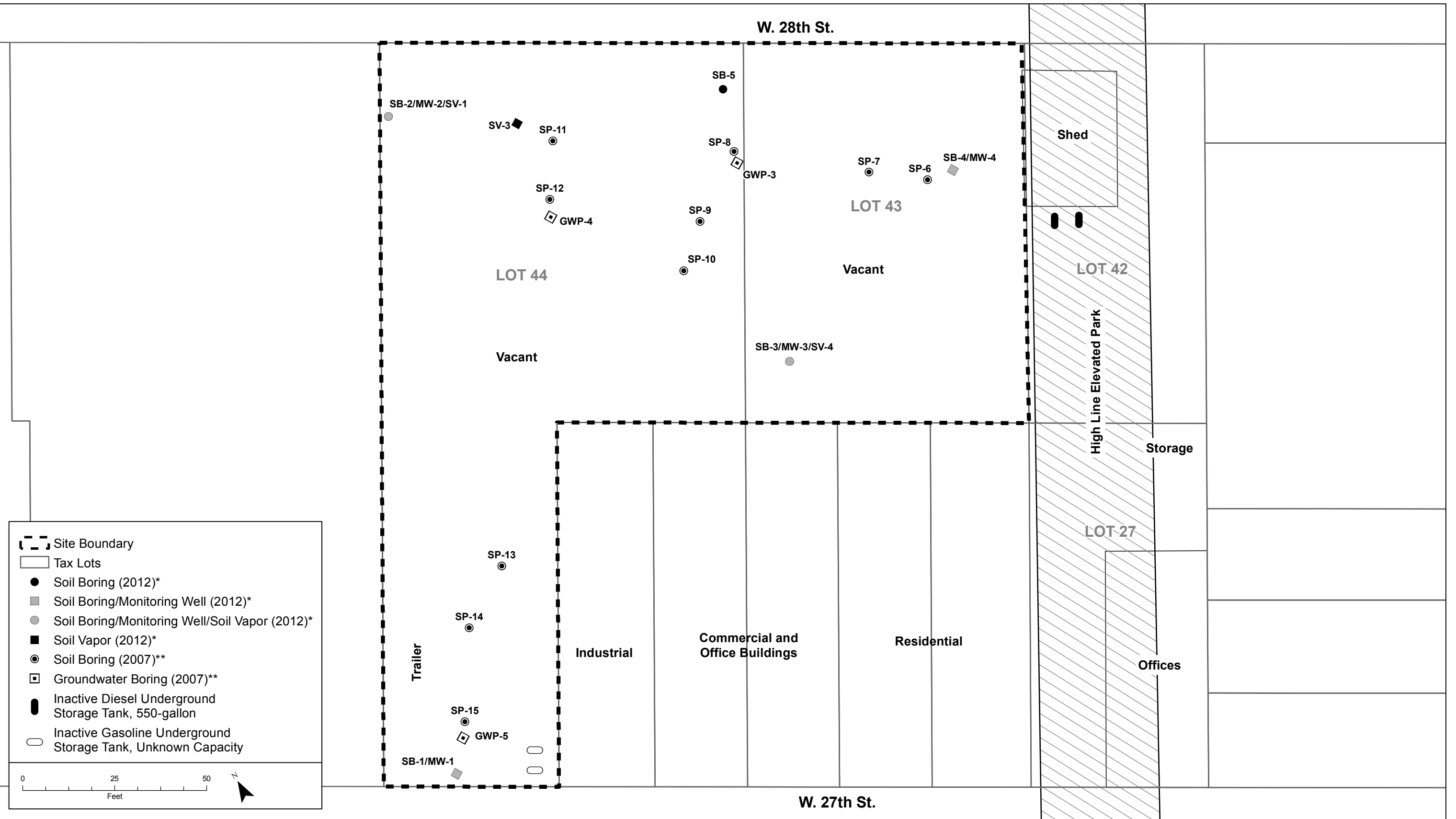
**Figure 3.**  
Current and Previous Site Boundaries  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report

P:\Projects\EO40\_W28th\_Related\Production\_MXD\Site\Figure4\_GW\_contours.mxd 6/19/2013 5:01:16 PM





P:\Projects\EO40\_W28th\_Related\Production\_MXD\Site\Figure5\_Sampling\_locations.mxd 6/14/2013 3:16:22 PM



**Figure 5.**  
Previous Sampling Locations for All Investigations  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report

P:\Projects\EO40\_V28th\_Related\Production\_MXD\RI\Figure6\_Prevous Soil\_VOC\_Results.mxd 6/14/2013 3:19:19 PM

SB-2	4'	10'	4'
8/2/2012	Total	Total	DUP Total
VOCs			
1,2,4-Trimethylbenzene	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND
Acetone	ND	ND	ND
Total Xylenes	ND	ND	ND
SVOCs			
Benzo(A)Anthracene	0.92	ND	1
Benzo(A)Pyrene	0.81	ND	0.84
Benzo(B)Fluoranthene	1	ND	0.95
Benzo(K)Fluoranthene	0.32	ND	0.49
Chrysene	0.89	ND	0.99
Indeno(1,2,3-Cd)Pyrene	<b>0.54</b>	ND	<b>0.53</b>
PCBs			
Total Pcb	ND	ND	ND
Pesticides			
4,4'-DDD	ND	ND	ND
4,4'-DDT	ND	ND	ND
Dieldrin	ND	ND	ND

SP-11	3-5'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	<b>14.982</b>
1,3,5-Trimethylbenzene	<b>12.727</b>
Total Xylenes	<b>5.448</b>
SVOCs	
Benzo(A)Anthracene	0.465
Benzo(A)Pyrene	0.373
Benzo(B)Fluoranthene	ND
Benzo(K)Fluoranthene	ND
Chrysene	0.442
Indeno(1,2,3-Cd)Pyrene	ND

SP-12	3-5'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND
Total Xylenes	ND
SVOCs	
Benzo(A)Anthracene	0.726
Benzo(A)Pyrene	0.68
Benzo(B)Fluoranthene	0.454
Benzo(K)Fluoranthene	0.666
Chrysene	0.759
Indeno(1,2,3-Cd)Pyrene	ND

SB-5	8'
8/2/2012	Total
VOCs	
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND
Acetone	ND
Total Xylenes	ND
SVOCs	
Benzo(A)Anthracene	ND
Benzo(A)Pyrene	ND
Benzo(B)Fluoranthene	ND
Benzo(K)Fluoranthene	ND
Chrysene	ND
Indeno(1,2,3-Cd)Pyrene	ND
PCBs	
Total Pcb	ND
Pesticides	
4,4'-DDD	ND
4,4'-DDT	ND
Dieldrin	ND

SB-4	4'	13'
8/2/2012	Total	Total
VOCs		
1,2,4-Trimethylbenzene	ND	ND
1,3,5-Trimethylbenzene	ND	ND
Acetone	ND	ND
Total Xylenes	ND	ND
SVOCs		
Benzo(A)Anthracene	<b>1.5</b>	ND
Benzo(A)Pyrene	<b>1.3J</b>	ND
Benzo(B)Fluoranthene	<b>1.6</b>	ND
Benzo(K)Fluoranthene	0.68J	ND
Chrysene	<b>1.7</b>	ND
Indeno(1,2,3-Cd)Pyrene	<b>1J</b>	ND
PCBs		
Total Pcb	<b>0.1057</b>	ND
Pesticides		
4,4'-DDD	<b>0.00625J</b>	ND
4,4'-DDT	<b>0.0244</b>	ND
Dieldrin	<b>0.00737</b>	ND

SP-14	3-5'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	0.027
1,3,5-Trimethylbenzene	0.048
Total Xylenes	0.055
SVOCs	
Benzo(A)Anthracene	<b>4.025</b>
Benzo(A)Pyrene	<b>3.166</b>
Benzo(B)Fluoranthene	<b>3.437</b>
Benzo(K)Fluoranthene	<b>4.105</b>
Chrysene	<b>4.721</b>
Indeno(1,2,3-Cd)Pyrene	0.433

SP-13	3-5'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND
Total Xylenes	0.062
SVOCs	
Benzo(A)Anthracene	ND
Benzo(A)Pyrene	0.486
Benzo(B)Fluoranthene	0.367
Benzo(K)Fluoranthene	0.452
Chrysene	0.396
Indeno(1,2,3-Cd)Pyrene	ND

SP-7	7-9'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND
Total Xylenes	ND
SVOCs	
Benzo(A)Anthracene	0.418
Benzo(A)Pyrene	0.524
Benzo(B)Fluoranthene	0.418
Benzo(K)Fluoranthene	0.457
Chrysene	0.454
Indeno(1,2,3-Cd)Pyrene	ND

SP-6	3-5'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND
Total Xylenes	ND
SVOCs	
Benzo(A)Anthracene	0.829
Benzo(A)Pyrene	0.757
Benzo(B)Fluoranthene	0.707
Benzo(K)Fluoranthene	0.722
Chrysene	0.886
Indeno(1,2,3-Cd)Pyrene	ND

SP-15	10-12'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND
Total Xylenes	0.082
SVOCs	
Benzo(A)Anthracene	ND
Benzo(A)Pyrene	<b>2.86</b>
Benzo(B)Fluoranthene	0.938
Benzo(K)Fluoranthene	<b>2.081</b>
Chrysene	ND
Indeno(1,2,3-Cd)Pyrene	<b>0.52</b>

SB-1	10'	13.5'
8/2/2012	Total	Total
VOCs		
1,2,4-Trimethylbenzene	ND	0.0034J
1,3,5-Trimethylbenzene	ND	0.005J
Acetone	<b>0.064</b>	<b>0.15</b>
Total Xylenes	0.0026J	0.0027J
SVOCs		
Benzo(A)Anthracene	ND	ND
Benzo(A)Pyrene	ND	ND
Benzo(B)Fluoranthene	ND	ND
Benzo(K)Fluoranthene	ND	ND
Chrysene	ND	ND
Indeno(1,2,3-Cd)Pyrene	ND	ND
PCBs		
Total Pcb	ND	ND
Pesticides		
4,4'-DDD	ND	ND
4,4'-DDT	ND	ND
Dieldrin	ND	ND

SB-3	3'	11'
8/2/2012	Total	Total
VOCs		
1,2,4-Trimethylbenzene	ND	ND
1,3,5-Trimethylbenzene	ND	ND
Acetone	ND	ND
Total Xylenes	ND	ND
SVOCs		
Benzo(A)Anthracene	0.41J	ND
Benzo(A)Pyrene	ND	ND
Benzo(B)Fluoranthene	0.43J	ND
Benzo(K)Fluoranthene	ND	ND
Chrysene	0.38J	ND
Indeno(1,2,3-Cd)Pyrene	ND	ND
PCBs		
Total Pcb	ND	ND
Pesticides		
4,4'-DDD	ND	ND
4,4'-DDT	ND	ND
Dieldrin	ND	ND

SP-10	8-10'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND
Total Xylenes	ND
SVOCs	
Benzo(A)Anthracene	ND
Benzo(A)Pyrene	ND
Benzo(B)Fluoranthene	ND
Benzo(K)Fluoranthene	ND
Chrysene	ND
Indeno(1,2,3-Cd)Pyrene	ND

SP-9	6-8'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND
Total Xylenes	ND
SVOCs	
Benzo(A)Anthracene	ND
Benzo(A)Pyrene	ND
Benzo(B)Fluoranthene	ND
Benzo(K)Fluoranthene	ND
Chrysene	ND
Indeno(1,2,3-Cd)Pyrene	ND

SP-8	5-7'
7/31/2007 - 8/1/2007	Total
VOCs	
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND
Total Xylenes	ND
SVOCs	
Benzo(A)Anthracene	ND
Benzo(A)Pyrene	ND
Benzo(B)Fluoranthene	ND
Benzo(K)Fluoranthene	ND
Chrysene	ND
Indeno(1,2,3-Cd)Pyrene	ND

#### Approximate Well Locations

- Soil Boring (2012)
- Soil Boring/Monitoring Well (2012)
- Soil Boring/Monitoring Well/Soil Vapor (2012)
- Soil Boring (2007)

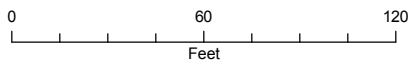
Sample ID	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**
Date		
Analyte		
VOCs		
	mg/kg	mg/kg
1,2,4-Trimethylbenzene	3.6	52
1,3,5-Trimethylbenzene	8.4	52
Acetone	0.05	100
Total Xylenes	0.26	100
SVOCs		
Benzo(A)Anthracene	1	1
Benzo(A)Pyrene	1	1
Benzo(B)Fluoranthene	1	1
Benzo(K)Fluoranthene	0.8	3.9
Chrysene	1	3.9
Indeno(1,2,3-Cd)Pyrene	0.5	0.5
PCBs		
Total PCBs	0.1	1
Pesticides		
4,4'-DDD	0.0033	13
4,4'-DDT	0.0033	7.9
Dieldrin	0.005	0.2

#### NOTES:

- \*=6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs
- \*\*=6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential
- All results are in mg/kg
- ND = Not Detected
- Only compounds that exceeded SCOs are shown. **Bolded** results exceed Unrestricted SCOs, **Bold and Italicized** results exceed unrestricted and Restricted Residential SCOs
- The 2007 Investigation did not include analysis for Acetone, PCBs or Pesticides
- 2007 boring locations from Phase II Environmental Site Assessment, Impact Environmental, 2007
- 2012 boring locations from Supplemental Site Investigation, ELM Engineering, 2012



61 Broadway, Suite 1601  
New York, New York 10006  
www.integral-corp.com

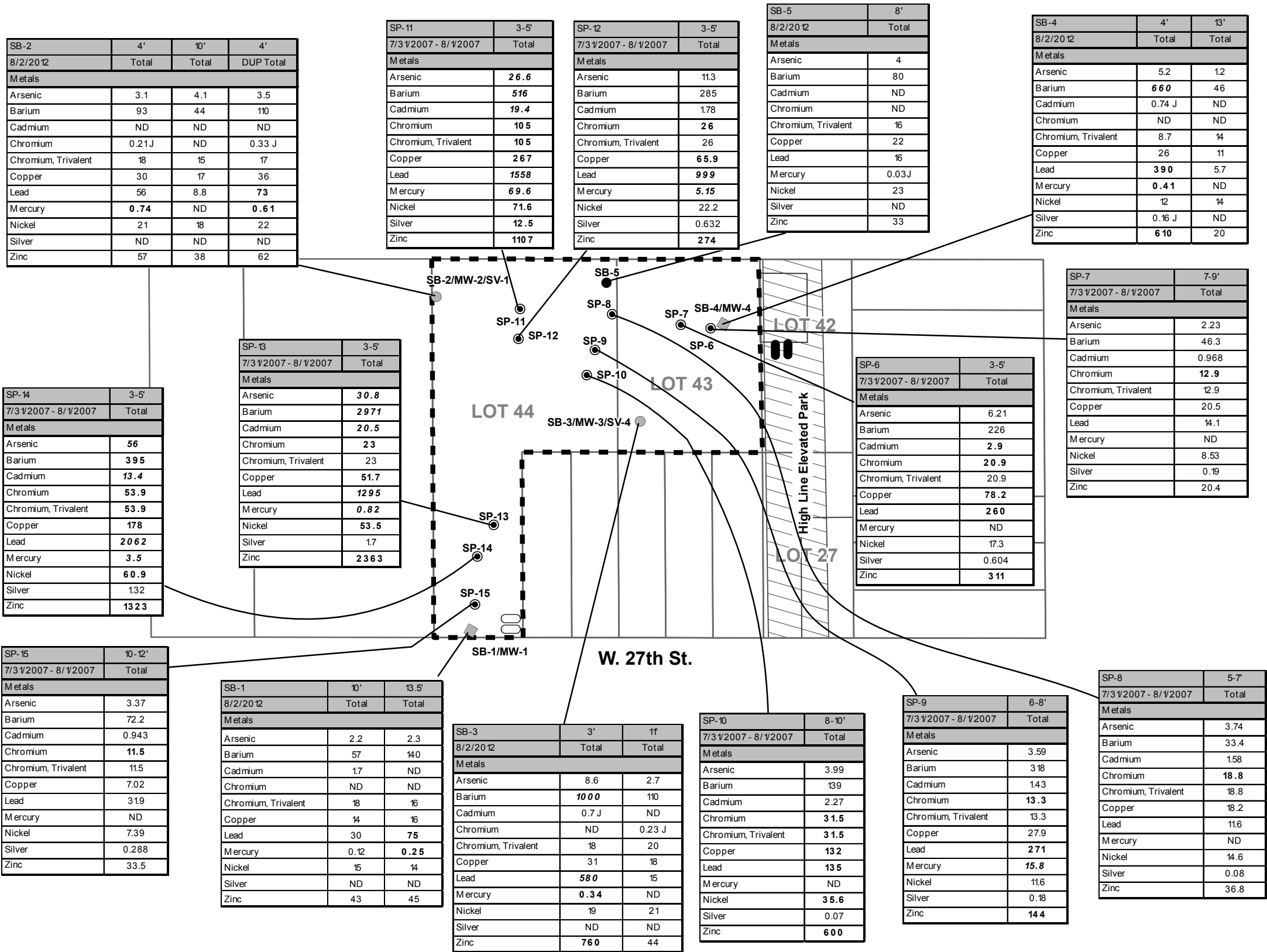


Site Boundary  
Tax Lots

Inactive Diesel Underground  
Storage Tank, 550-gallon  
Inactive Gasoline Underground  
Storage Tank, Unknown Capacity

**Figure 6.**  
Previous Investigations Soil Analytical Results Map  
for VOCs/SVOCs  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report

P:\Projects\EO40\_V28th\_Related\Production\_MXD\Site\Figure7\_Prevous Soil\_metal\_Results.mxd 6/14/2013 3:24:31 PM



#### Approximate Well Locations

- Soil Boring (2012)
- Soil Boring/Monitoring Well (2012)
- Soil Boring/Monitoring Well/Soil Vapor (2012)
- Soil Boring (2007)

Sample ID	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**
Date		
Analyte		
Metals	mg / kg	mg / kg
Arsenic	13.00	16.00
Barium	350.00	400.00
Cadmium	2.50	4.30
Chromium	100	110.00
Chromium, Trivalent	30.00	180.00
Copper	50.00	270.00
Lead	63.00	400.00
Mercury	0.18	0.81
Nickel	30.00	310.00
Silver	2.00	180.00
Zinc	109.00	10000.00

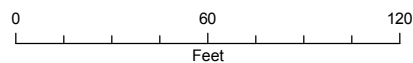
#### NOTES:

- \*=6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs
- \*\*=6 NYCRR Part 375-6.8(b) Restricted Residential Use SCOs
- All results are in mg/kg
- ND = Not Detected
- Only compounds that exceeded SCOs are shown. **Bolded** results exceed Unrestricted SCOs, **Bolded** and *italicized* results exceed Unrestricted and Restricted Residential SCOs
- 2007 boring locations from Phase II Environmental Site Assessment, Impact Environmental, 2007
- 2012 boring locations from Supplemental Site Investigation, ELM Engineering, 2012

**Figure 7.**  
Previous Investigations Soil Analytical Results Map for Metals  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report



61 Broadway, Suite 1601  
New York, New York 10006  
www.integral-corp.com



Site Boundary  
Tax Lots

Inactive Diesel Underground  
Storage Tank, 550-gallon  
Inactive Gasoline Underground  
Storage Tank, Unknown Capacity

P:\Projects\E040\_V28th\_Related\Production\_MXD\RI\Figure8\_Preview\_GW\_Results.mxd 6/14/2013 3:24:06 PM

MW-2				
8/10/2012	Total	Dissolved	DUP Total	DUP Dissolved
VOCs				
1,1-Dichloroethane	8.4 J	NT	9.9 J	NT
Cis-1,2-Dichloroethene	220	NT	260	NT
SVOCs				
Benzo(B)Fluoroanthene	ND	NT	ND	NT
Bis(2-Ethylhexyl)Phthalate	ND	NT	ND	NT
Chrysene	ND	NT	ND	NT
Phenanthrene	ND	NT	ND	NT
Metals				
Aluminum, Al	38900	26 J	30400	17 J
Chromium, Cr	89.1	ND	75	ND
Copper, Cu	109.6	3 J	100.9	3.5 J
Iron, Fe	49000	ND	37900	ND
Lead	84.4	ND	67.1	ND
Magnesium, Mg	59000	53000	61000	45200
Manganese, Mn	2190	606	1935	756.5
Nickel	814	ND	79.9	ND
Selenium, Se	9 J	7 J	9 J	6 J
Sodium, Na	171000	134000	171000	147000

GWSP-3	
7/31/2007 - 8/1/2007	Total
VOCs	
cis-1,2-Dichloroethene	ND
SVOCs	
Benzo(B)Fluoroanthene	ND
Bis(2-Ethylhexyl)Phthalate	ND
Chrysene	ND
Phenanthrene	ND
Metals	
Aluminum, Al	279
Chromium, Cr	ND
Copper, Cu	129
Iron, Fe	1570
Lead	ND
Magnesium, Mg	114000
Manganese, Mn	15400
Nickel	60
Selenium, Se	50
Sodium, Na	221000

MW-4		
8/10/2012	Total	Dissolved
VOCs		
1,1-Dichloroethane	ND	NT
Cis-1,2-Dichloroethene	ND	NT
SVOCs		
Benzo(B)Fluoroanthene	ND	NT
Bis(2-Ethylhexyl)Phthalate	ND	NT
Chrysene	ND	NT
Phenanthrene	ND	NT
Metals		
Aluminum, Al	333	12 J
Chromium, Cr	5.9 J	ND
Copper, Cu	9.3 J	6.5
Iron, Fe	972	ND
Lead	3.8 J	ND
Magnesium, Mg	49200	44100
Manganese, Mn	619	413
Nickel	9.7	ND
Selenium, Se	28 J	25
Sodium, Na	79900	73400

GWSP-4	
7/31/2007 - 8/1/2007	Total
VOCs	
cis-1,2-Dichloroethene	201
SVOCs	
Benzo(B)Fluoroanthene	ND
Bis(2-Ethylhexyl)Phthalate	ND
Chrysene	ND
Phenanthrene	18
Metals	
Aluminum, Al	416
Chromium, Cr	ND
Copper, Cu	ND
Iron, Fe	1700
Lead	ND
Magnesium, Mg	52300
Manganese, Mn	6320
Nickel	ND
Selenium, Se	ND
Sodium, Na	121000

GWSP-5	
7/31/2007 - 8/1/2007	Total
VOCs	
cis-1,2-Dichloroethene	ND
SVOCs	
Benzo(B)Fluoroanthene	ND
Bis(2-Ethylhexyl)Phthalate	ND
Chrysene	ND
Phenanthrene	ND
Metals	
Aluminum, Al	249
Chromium, Cr	ND
Copper, Cu	387
Iron, Fe	2090
Lead	ND
Magnesium, Mg	45700
Manganese, Mn	2710
Nickel	ND
Selenium, Se	ND
Sodium, Na	136000

MW-1		
8/10/2012	Total	Dissolved
VOCs		
1,1-Dichloroethane	ND	NT
Cis-1,2-Dichloroethene	19 J	NT
SVOCs		
Benzo(B)Fluoroanthene	ND	NT
Bis(2-Ethylhexyl)Phthalate	ND	NT
Chrysene	0.29	NT
Phenanthrene	ND	NT
Metals		
Aluminum, Al	23300	ND
Chromium, Cr	287	ND
Copper, Cu	85.7	4.4 J
Iron, Fe	40600	ND
Lead	89.1	ND
Magnesium, Mg	29500	20800
Manganese, Mn	4213	2582
Nickel	294.4	ND
Selenium, Se	3 J	ND
Sodium, Na	77800	78200

MW-3		
8/10/2012	Total	Dissolved
VOCs		
1,1-Dichloroethane	ND	NT
Cis-1,2-Dichloroethene	ND	NT
SVOCs		
Benzo(B)Fluoroanthene	0.4 J	NT
Bis(2-Ethylhexyl)Phthalate	6.1	NT
Chrysene	0.48 J	NT
Phenanthrene	ND	NT
Metals		
Aluminum, Al	17800	ND
Chromium, Cr	62.7	ND
Copper, Cu	88.1	5.7
Iron, Fe	27700	ND
Lead	158.9	ND
Magnesium, Mg	37000	23500
Manganese, Mn	3113	1286
Nickel	69.1	ND
Selenium, Se	12 J	10 J
Sodium, Na	40600	39600

Approximate Well Locations

- Soil Boring/Monitoring Well (2012)
- Soil Boring/Monitoring Well/Soil Vapor (2012)
- Groundwater Grab Sample (2007)

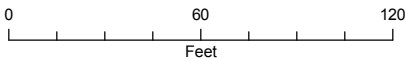
Sample ID	TOGS Class GA Standards*
Date	
Analyte	
VOCs	
1,1-Dichloroethane	5
Cis-1,2-Dichloroethene	5
SVOCs	
Benzo(B)Fluoroanthene	0.002
Bis(2-Ethylhexyl)Phthalate	5
Chrysene	0.002
Phenanthrene	50
Metals	
Aluminum, Al	100
Chromium	50
Copper, Cu	200
Iron, Fe	300
Lead	25
Magnesium, Mg	35000
Manganese, Mn	300
Nickel	100
Selenium, Se	10
Sodium, Na	20000

NOTES:

- \*NYSDEC Division of Technical Operational Guidance Series (TOGS) 1.1.1, Class GA Water Quality Standards and Guidance Values
- All results are in µg/L
- ND = Not Detected
- NT = Not Tested
- Bolded** and *Italicized* indicates an exceedence of Class GA Standards
- The 2007 Investigation did not include analysis for 1,1-Dichloroethene.
- 2007 boring locations from Phase II Environmental Site Assessment, Impact Environmental, 2007
- 2012 boring locations from Supplemental Site Investigation, ELM Engineering, 2012



61 Broadway, Suite 1601  
New York, New York 10006  
www.integral-corp.com



Site Boundary



Tax Lots



Inactive Diesel Underground  
Storage Tank, 550-gallon



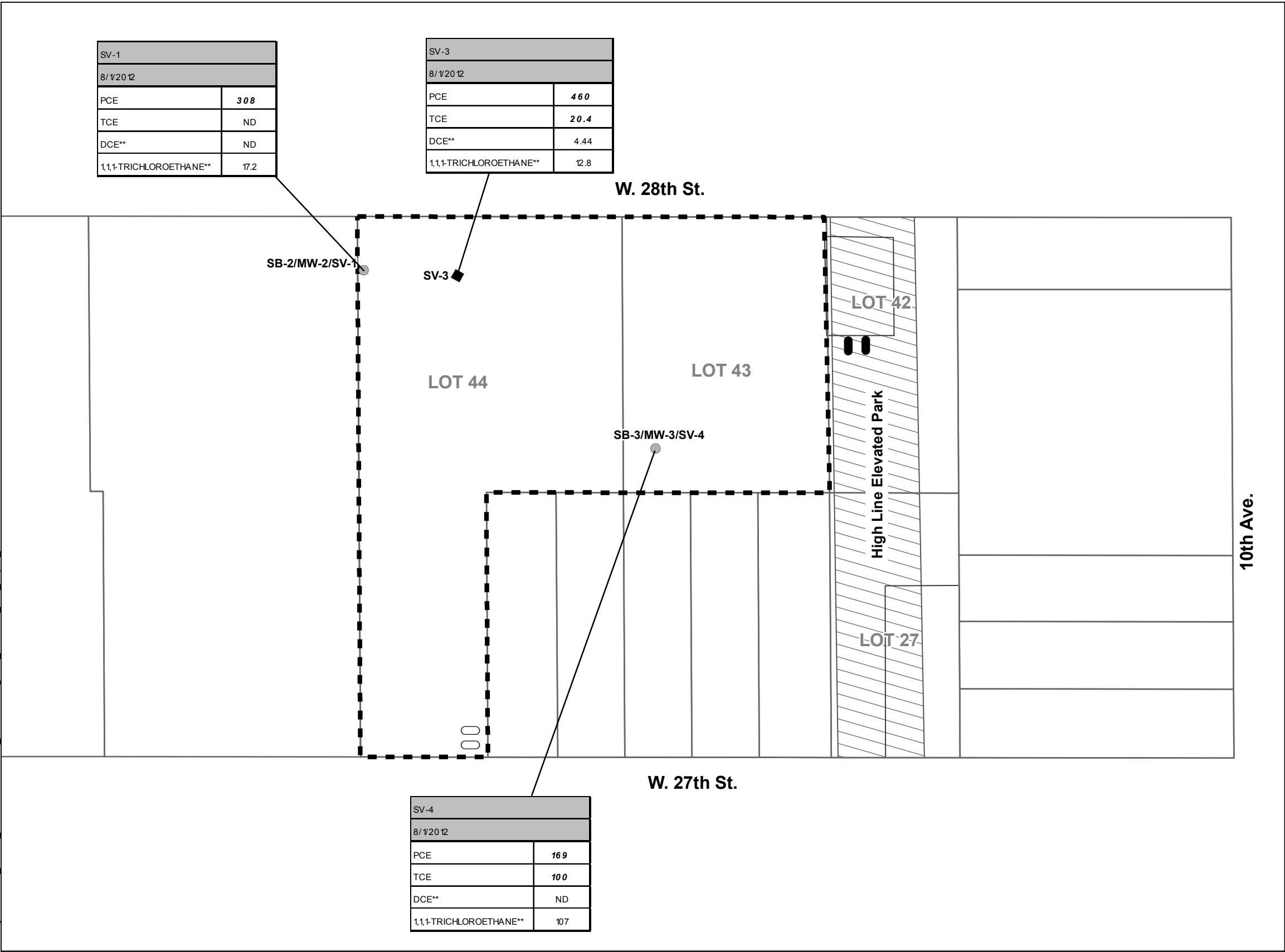
Inactive Gasoline Underground  
Storage Tank, Unknown Capacity

Figure 8.

Previous Investigations Groundwater Analytical Results Map  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report



P:\Projects\EO40\_W28th\_Related\Production\_MXD\RI\Figure9\_Prevous\_Soil\_Vapor\_Results.mxd 6/14/2013 3:27:11 PM



Approximate Well Locations

- Soil Boring/Monitoring Well/Soil Vapor (2012)
- Soil Vapor (2012)

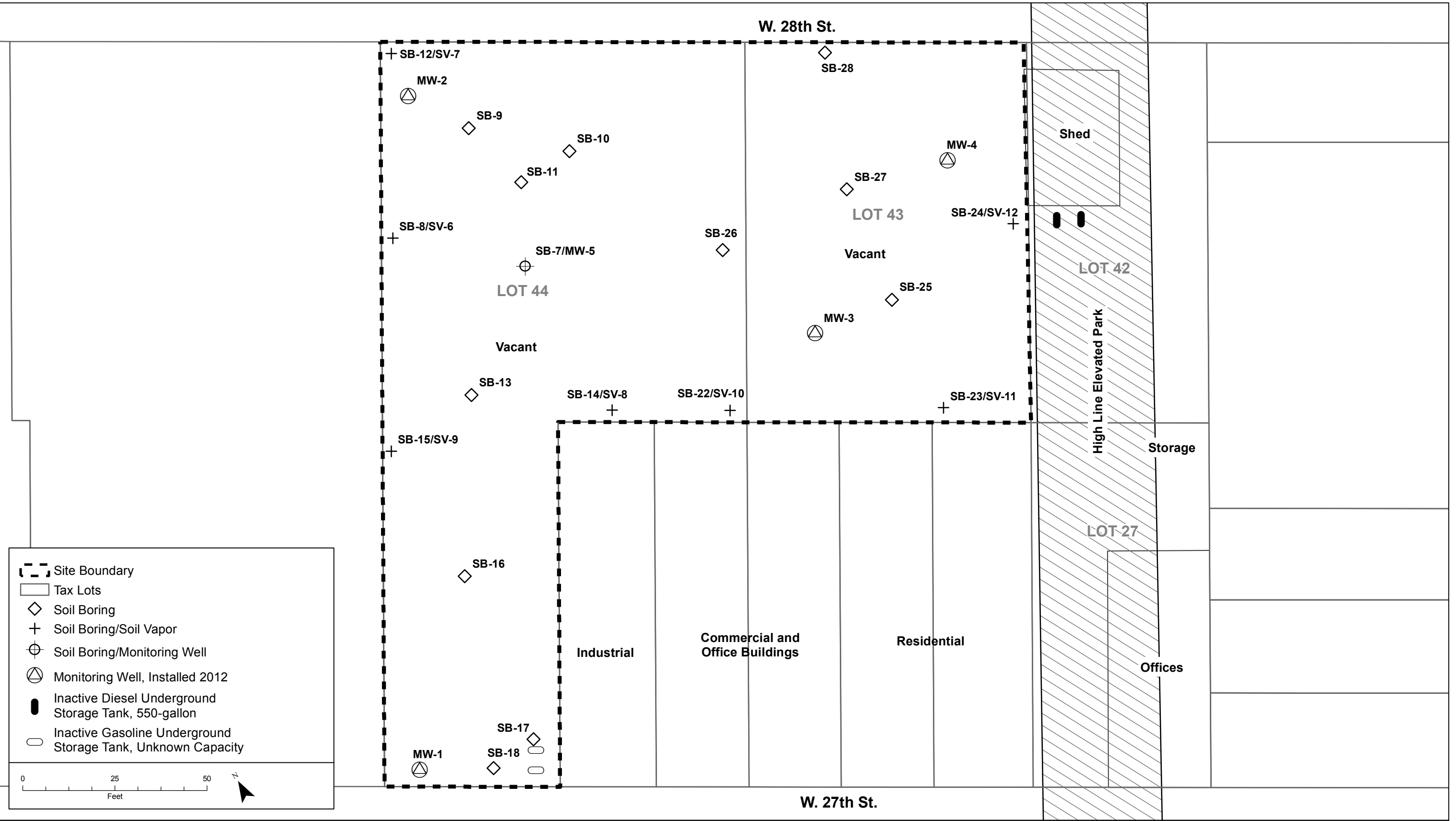
Sample ID	
Date	
Analyte	AGV*
TETRACHLOROETHENE (PCE)	100
TRICHLOROETHENE (TCE)	5
CIS-1,2-DICHLOROETHENE (DCE)**	NS
1,1,1-TRICHLOROETHANE**	NS

**NOTES:**

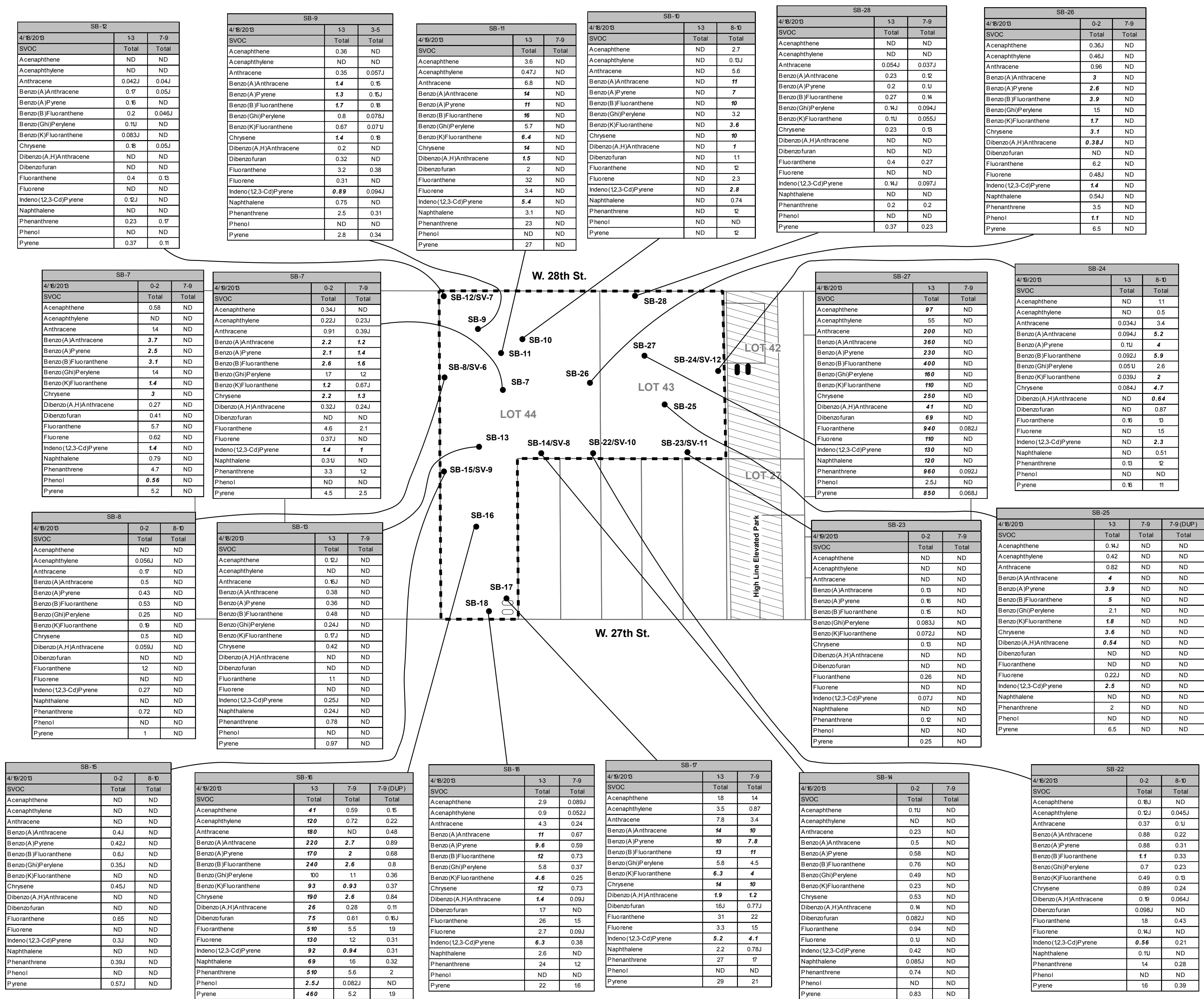
- \*New York State Department of Health (NYSDOH) Air Guidance Value (AGV)
- \*\*Compound subject to the NYSDOH Soil Vapor and Indoor Air Matrices
- All results are in  $\mu\text{g}/\text{m}^3$
- ND = Not Detected
- NS = No Standard
- Only compounds that exceed AGVs or that were detected and are subject to the NYSDOH Matrices are shown
- Bolded** and *italicized* results indicate an AGV exceedance
- 2007 boring locations from Phase II Environmental Site Assessment, Impact Environmental, 2007
- 2012 boring locations from Supplemental Site Investigation, ELM Engineering, 2012

**Figure 9.**  
Previous Investigations Soil Vapor Analytical Results Map  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report

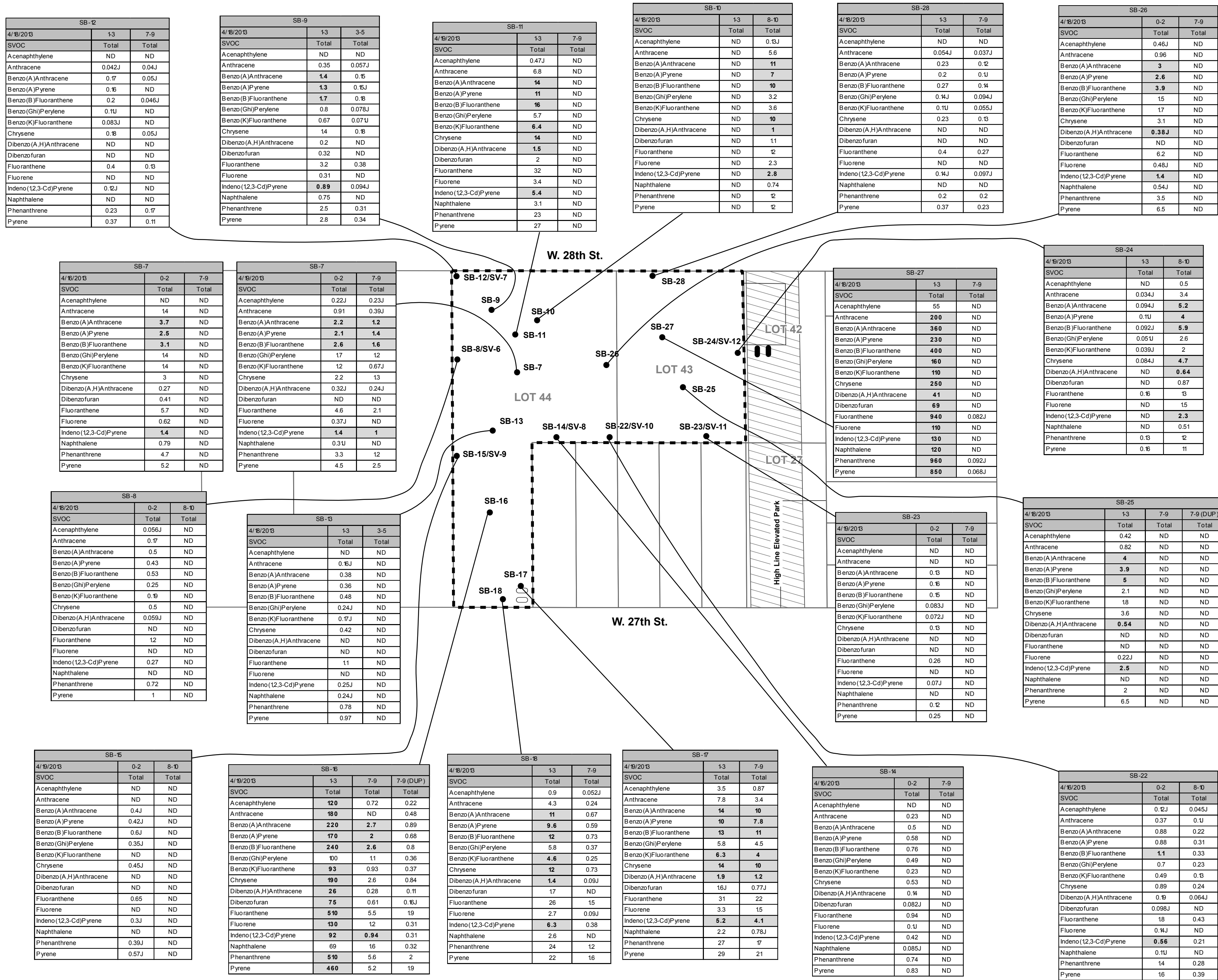
P:\Projects\EO40\_W28th\_Related\Production\_MXD\RI\Figure10\_Proposed\_Sampling\_locs.mxd 6/26/2013 8:48:47 AM



**Figure 10.**  
RI Sample Locations  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report

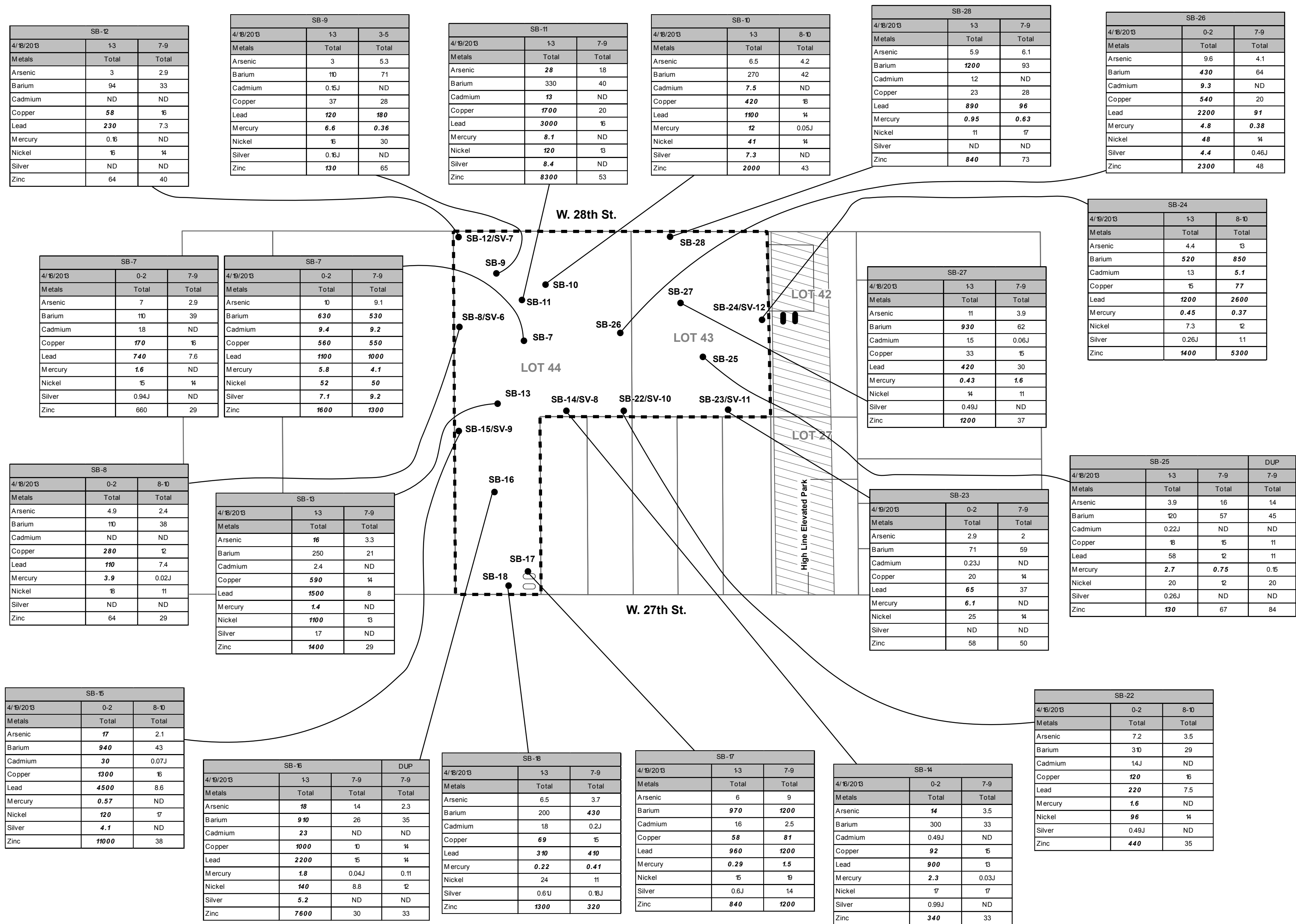




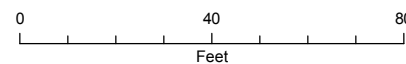




P:\Projects\E40\_W28th\_Related\Production\_MXD\SoilsRI\Figure13\_Soil\_metals\_Unrestricted.mxd 6/26/2013 9:21:49 AM

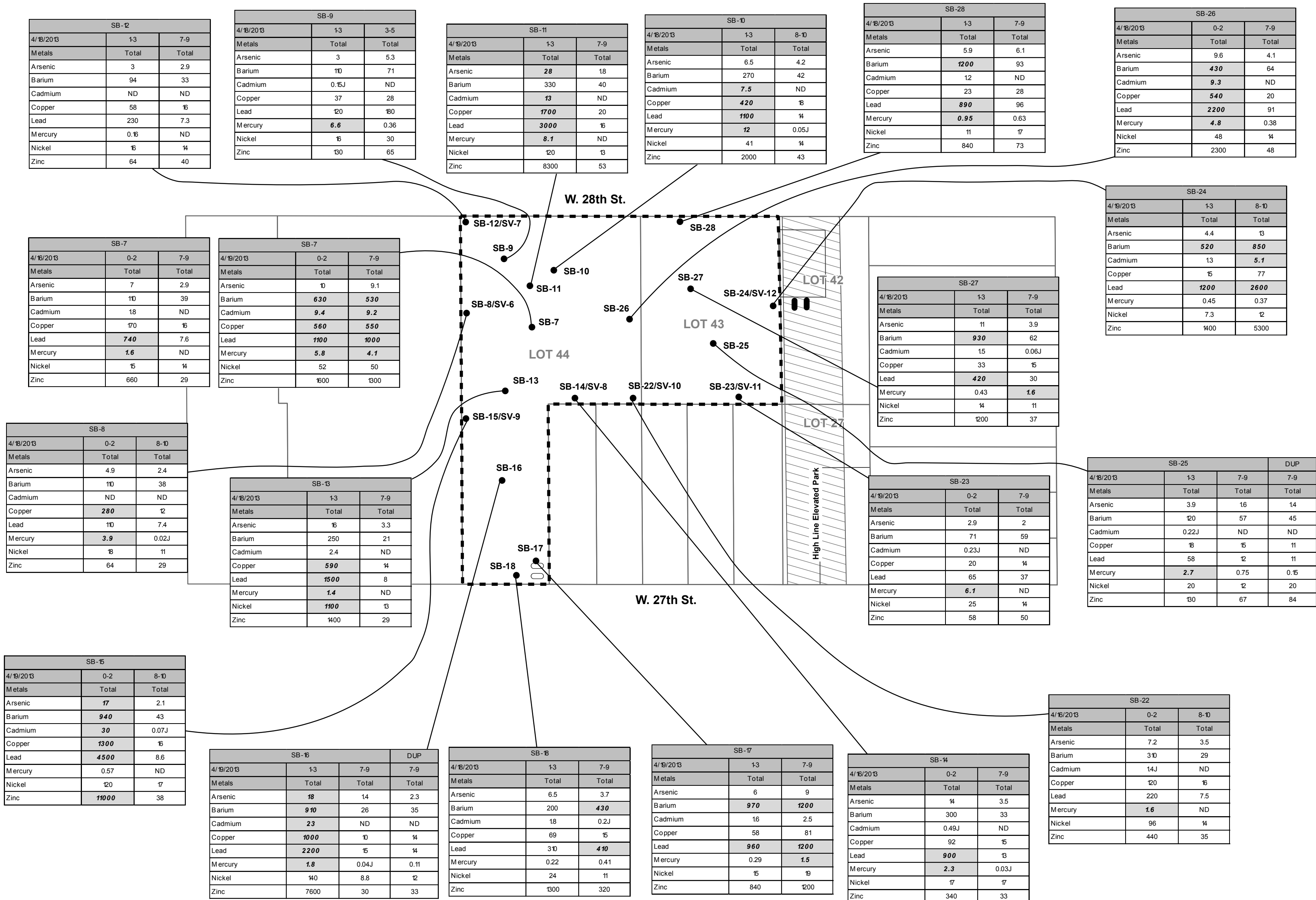


P:\Projects\E400\_W28th\_Related\Production\_MXD\SoilsRI\Figure14\_Soil\_Metals\_Restricted.mxd 6/26/2013 9:26:12 AM



Site Boundary  
 Tax Lots

Inactive Diesel Underground Storage Tank, 550-gallon  
 Inactive Gasoline Underground Storage Tank, Unknown Capacity



● Soil Sample Location

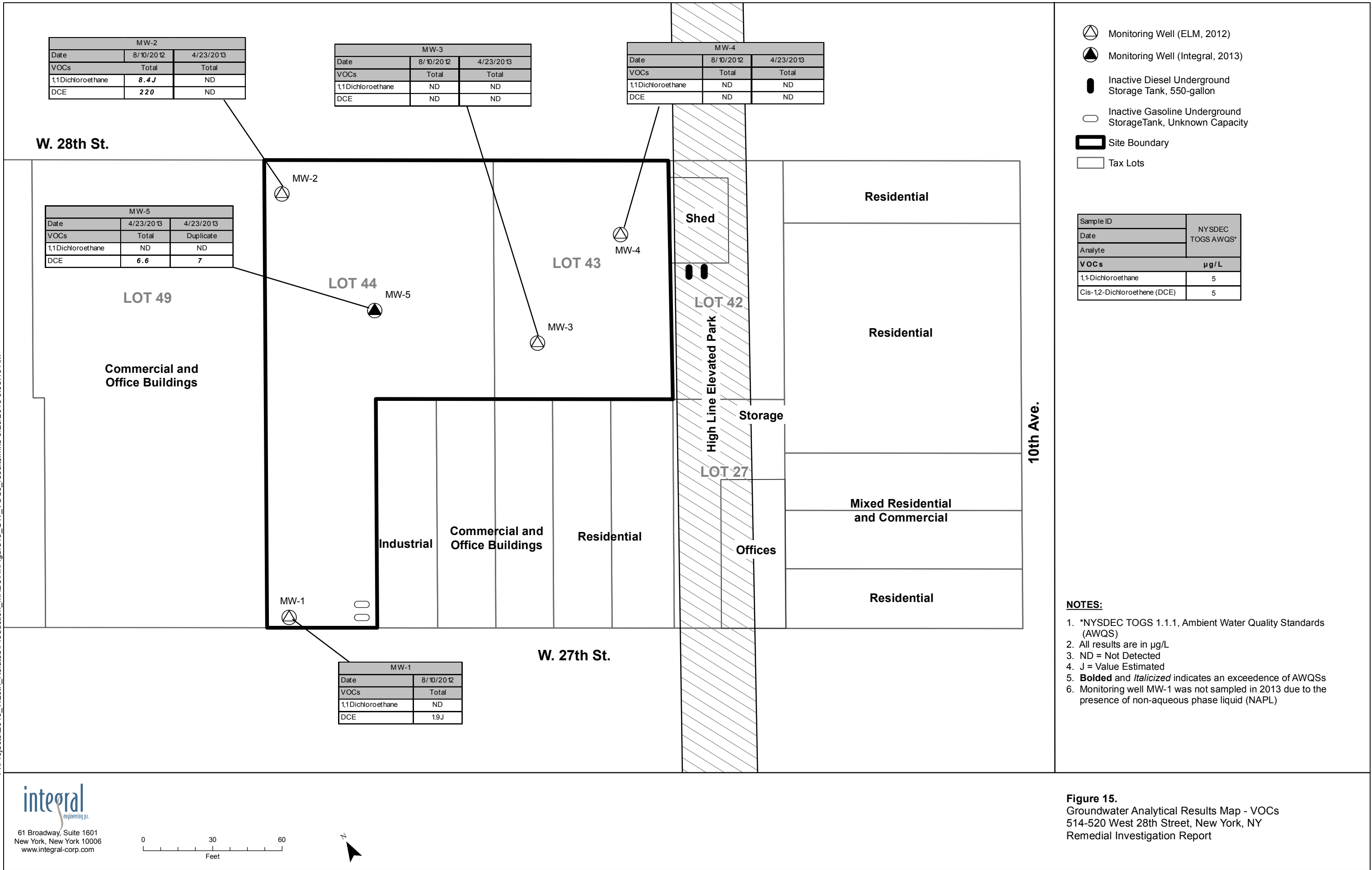
Sample ID	Part 375 Restricted Residential*
Date	Depth
Analyte	
Metals	mg/kg
Arsenic	16
Barium	400
Cadmium	4.3
Copper	270
Lead	400
Mercury	0.81
Nickel	310
Zinc	10000

**NOTES:**

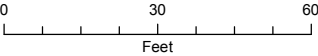
- \*=6 NYCRR Part 375-6.8(b) Restricted Residential Use SCOs
- All results are in mg/kg
- ND = Not Detected
- Only compounds that exceeded SCOs are shown. **Bolded** and shaded results exceed Restricted Residential SCOs.

**Figure 14.**  
Soil Analytical Results Map -  
Metals Exceeding Restricted Residential SCOs  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report

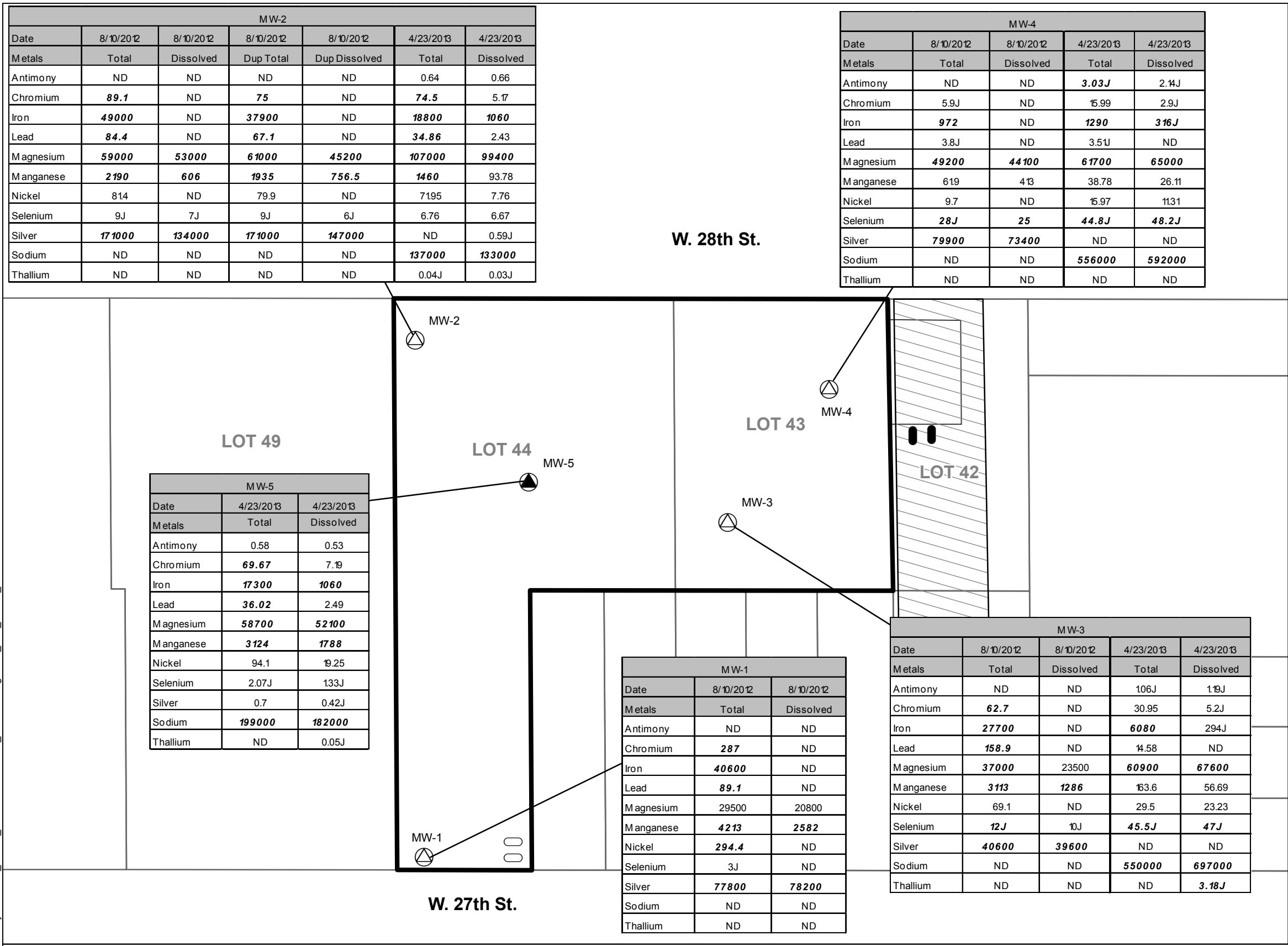
P:\Projects\E040\_W28th\_Related\Production\_MXD\Site\Figure15\_GW\_VOCs\_results.mxd 6/26/2013 9:38:16 AM



61 Broadway, Suite 1601  
New York, New York 10006  
www.integral-corp.com



P:\Projects\E040\_W28th\_Related\Production\_MXD\Site\Figure16\_GW\_metals\_results.mxd 6/18/2013 10:48:33 AM

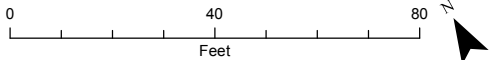


**NOTES:**

1. \*NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)
2. All results are in µg/L
3. ND = Not Detected
4. J = Value Estimated
5. **Bolded** and *Italicized* indicates an exceedence of AWQSS
6. Monitoring well MW-1 was not sampled in 2013 due to the presence of non-aqueous phase liquid (NAPL)



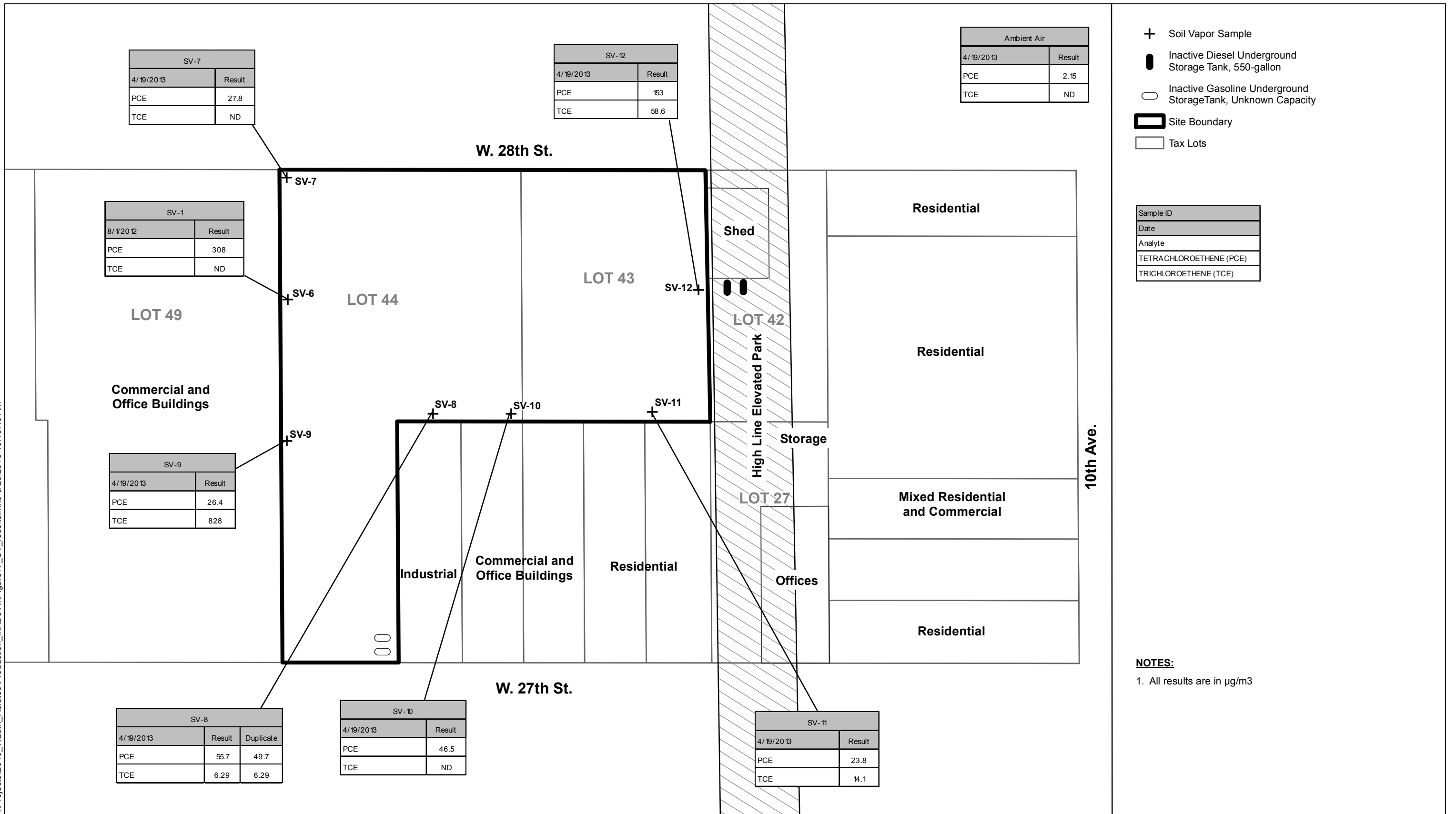
61 Broadway, Suite 1601  
New York, New York 10006  
www.integral-corp.com



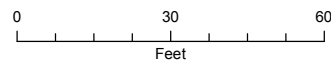
**Figure 16.**  
Groundwater Analytical Results Map - Metals  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report



P:\Projects\E040\_W28th\_Related\Production\_MXD\17\_SV\_results.mxd 6/26/2013 10:13:40 AM



61 Broadway, Suite 1601  
New York, New York 10006  
www.integral-corp.com



**Figure 17.**  
Soil Vapor Analytical Results Map  
514-520 West 28th Street, New York, NY  
Remedial Investigation Report

# TABLES

---

RI TABLE 1  
Impact Environmental 2007 Phase II  
Analytical Results Table  
514-520 West 28th Street

Parameter Name	Parameter ID	SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	SP10	SP11	SP12	SP13	SP14	SP15	GWSP1	GWSP2	GWSP3	GWSP4	GWSP5	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	NYSDEC Background Levels	NYSDEC TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values
Sample Depth		[7-9']	[4-6']	[8-10']	[2-4']	[2-4']	[3-5']	[7-9']	[5-7']	[6-8']	[8-10']	[3-5']	[3-5']	[3-5']	[3-5']	[10-12']								
Unit	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L	ug/L	ug/L	ug/L	ug/Kg	ug/Kg	ug/L
Total Xylenes	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5448	<5	62	55	82	<5	<5	<5	<5	<5	1,200	NA	5
1,2,4-Trimethylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	14982	<5	<5	27	<5	<5	<5	<5	<5	<5	sum<10,000	NA	5
1,3,5-Trimethylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	12727	<5	<5	48	<5	<5	<5	<5	<5	<5	3,300	NA	5
Toluene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	495	<5	21	<5	21	<5	<5	<5	<5	<5	1,500	NA	5
n-Propylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1481	<5	6.2	<5	6.4	<5	<5	<5	<5	<5	3,700	NA	5
p-Isopropyltoluene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	524	<5	<5	<5	<5	<5	<5	<5	<5	<5	sum<10,000	NA	5
Isopropylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	277	<5	<5	<5	<5	<5	<5	<5	<5	<5	2,300	NA	5
Ethylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	703	<5	11	10	<5	<5	<5	<5	<5	<5	5,500	NA	5
cis-1,2-Dichloroethene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	201	<5	NA	NA	5
sec-Butylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	259	<5	<5	<5	<5	<5	<5	<5	<5	<5	sum < 10,000	NA	5
Dibenzofuran	SVOC	<330	<330	<330	877	<330	<330	<330	<330	<330	<330	<330	<330	<330	951	<330	<11	<20	<12	<11	<11	6,200	NA	NA
Benzo-g,h,i-Perylene	SVOC	577	<330	<330	650	639	449	456	<330	<330	<330	<330	<330	<330	716	840	<11	<20	<12	<11	<11	50,000	NA	NA
Dibenzo-a,h-Anthracene	SVOC	354	<330	<330	358	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<11	<20	<12	<11	<11	14.3 MDL	NA	NA
Indeno(1,2,3-c,d)Pyrene	SVOC	<330	<330	<330	431	376	<330	<330	<330	<330	<330	<330	<330	<330	433	520	<11	<20	<12	<11	<11	3,200	NA	0.002
Benzo-a-Pyrene	SVOC	<330	<330	<330	3315	1096	757	524	<330	<330	<330	373	680	486	3166	2860	<11	<20	<12	<11	<11	61 or MDL	NA	MDL
Benzo-k-Fluoroanthene	SVOC	<330	<330	<330	2723	479	722	457	<330	<330	<330	<330	666	452	4105	2081	<11	<20	<12	<11	<11	220 or MDL	NA	0.002
Benzo-b-Fluoroanthene	SVOC	<330	<330	<330	3790	919	707	418	<330	<330	<330	<330	454	367	3437	938	<11	<20	<12	<11	<11	220 or MDL	NA	0.002
Bis(2-Ethylhexyl)Phthalate	SVOC	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	1248	<330	<330	<330	<330	<11	<20	<12	<11	<11	50,000	NA	5
Chrysene	SVOC	<330	<330	<330	4682	<330	886	454	<330	<330	<330	442	759	396	4721	<330	<11	<20	<12	<11	<11	400	NA	0.002
Benzo-a-Anthracene	SVOC	<330	<330	<330	4697	<330	829	418	<330	<330	<330	465	726	<330	4025	<330	<11	<20	<12	<11	<11	224 or MDL	NA	0.002
Butylbenzylphthalate	SVOC	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	1574	<330	<330	<330	<330	<11	<20	<12	<11	<11	50,000	NA	50
Pyrene	SVOC	<330	<330	<330	8779	539	1606	1049	<330	<330	668	1062	1502	713	7475	1238	<11	<20	<12	<11	<11	50,000	NA	50
Fluoranthene	SVOC	<330	461	<330	16139	1047	3145	2094	<330	465	920	1709	2831	1203	13321	1946	<11	<20	<12	<11	<11	50,000	NA	50
Anthracene	SVOC	<330	<330	<330	4140	<330	723	722	<330	<330	<330	611	608	<330	3284	554	<11	<20	<12	<11	<11	50,000	NA	50
Phenanthrene	SVOC	<330	445	<330	14849	861	2661	2629	<330	358	922	2466	2205	819	12375	2001	<11	<20	<12	18	<11	50,000	NA	50
Fluorene	SVOC	<330	<330	<330	1839	<330	<330	371	<330	<330	<330	585	<330	<330	1688	<330	<11	<20	<12	<11	<11	50,000	NA	50
Acenaphthylene	SVOC	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	1335	<330	<11	<20	<12	<11	<11	41,000	NA	NA
2-Methylnaphthalene	SVOC	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	9308	<330	<330	430	<330	<11	<20	<12	35	<11	36,400	NA	NA
Naphthalene	SVOC	<330	<330	<330	431	<330	<330	<330	<330	<330	<330	4967	<330	<330	807	<330	<11	<20	<12	<11	<11	13,000	NA	10
Unit	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/L	mg/L	mg/L	mg/L	mg/Kg	mg/Kg	mg/L
Zinc, Zn	METAL	70.9	92.7	954	465	138	311	20.4	36.8	144	600	1107	274	2363	1323	33.5	0.367	1.41	0.07	0.301	0.09	20 or SB	9.0-50	2
Vanadium, V	METAL	17.3	19.4	20.2	33.5	14.7	22.1	12.2	19	11.8	31.7	44.4	19.3	29.3	89.8	12.4	<0.05	<0.05	<0.05	<0.05	<0.05	150 or SB	1-300	NA
Thallium, Ti	METAL	1.32	2.21	2.22	1.92	2.14	1.44	1.94	2.31	1.79	1.32	19.2	2.25	26.5	18.4	1.44	<0.05	<0.05	<0.05	<0.05	<0.05	SB	NA	0.0005
Selenium, Se	METAL	0.105	0.186	0.552	1.03	<0.05	0.761	0.771	1.03	<0.05	<0.05	1.07	1.63	<0.05	<0.05	1.42	<0.05	<0.05	0.05	<0.05	<0.05	2 or SB	0.1-3.9	0.01
Antimony, Sb	METAL	2.74	4.64	4.25	3.83	3.45	3.4	3.61	3.7	3.46	4.02	40.8	3.69	31.7	35.7	3.03	<0.05	<0.05	<0.05	<0.05	<0.05	SB	NA	0.003
Lead, Pb	METAL	169	344	511	1150	472	260	14.1	11.6	271	135	1558	999	1295	2062	31.9	<0.05	<0.05	<0.05	<0.05	<0.05	61-500	4.0-61 or 200-500	0.025
Nickel, Ni	METAL	11.6	18.9	114	19.7	12.4	17.3	8.53	14.6	11.6	35.6	71.6	22.2	53.5	60.9	7.39	<0.05	0.09	0.06	<0.05	<0.05	13 or SB	0.5-25	0.1

RI TABLE 1  
Impact Environmental 2007 Phase II Analytical  
Results Table  
514-520 West 28th Street

																						NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	NYSDEC Background Levels	NYSDEC TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values
Parameter Name	Parameter ID	SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	SP10	SP11	SP12	SP13	SP14	SP15	GWSP1	GWSP2	GWSP3	GWSP4	GWSP5			
Sodium, Na	METAL	876	1105	2585	1588	1339	1770	824	1458	843	2631	4414	2078	6460	4795	634	154	165	221	121	136	SB	6,000-8,000	20
Manganese, Mn	METAL	132	162	696	320	338	449	200	356	155	387	1001	337	416	1353	102	8.89	4.25	15.4	6.32	2.71	SB	50-5,000	0.3
Magnesium, Mg	METAL	1658	2143	4471	1614	1532	2276	1530	2947	1849	4905	4693	2962	5940	3914	1895	34.8	63	114	52.3	45.7	SB	100-5,000	35
Potassium, K	METAL	1374	1787	2463	1164	2007	1632	724	1256	1072	4761	4867	2016	9953	5073	1472	51.4	67.5	53.7	20.4	43.1	SB	8,500-43,000	NA
Mercury, Hg	METAL	<0.5	8.84	1.44	8.82	4.7	<0.5	<0.5	<0.5	15.8	<0.5	69.6	5.15	0.82	3.5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	0.1	0.001-0.2	0.0007
Iron, Fe	METAL	11258	15778	16378	14195	9038	11571	5314	15275	7450	23898	148720	16147	12640	85973	6399	0.483	0.593	1.57	1.7	2.09	2,000 or SB	2,000-550,000	0.3
Copper, Cu	METAL	55.5	47.8	22.5	155	34.1	78.2	20.5	18.2	27.9	132	267	65.9	51.7	178	7.02	<0.05	<0.05	0.129	<0.05	0.387	25 or SB	1.0-50	0.2
Chromium, trivalent	METAL	13.5	19.1	49.5	22.7	19	20.9	12.9	18.8	13.3	31.5	105	26	23	53.9	11.5	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	NA
Chromium, Cr	METAL	13.5	19.1	49.9	22.7	19	20.9	12.9	18.8	13.3	31.5	105	26	23	53.9	11.5	<0.05	<0.05	<0.05	<0.05	<0.05	10 or SB	1.5-40	0.05
Cobalt, Co	METAL	3.25	6.78	13.3	4.92	5.26	5.64	3.76	7.02	4.67	14.8	22.4	8.51	19.5	36.4	3.72	<0.05	<0.05	<0.05	<0.05	<0.05	30 or SB	2.5-60	NA
Cadmium, Cd	METAL	1.02	1.49	1.88	6.52	1.3	2.9	0.968	1.58	1.43	2.27	19.4	1.78	20.5	13.4	0.943	<0.05	<0.05	<0.05	<0.05	<0.05	1 or SB	0.1-1	0.005
Calcium, Ca	METAL	4421	5926	25325	12193	14708	13336	1123	2298	11845	13336	29050	8409	77673	19240	7428	166	285	419	186	285	SB	130-35,000	NA
Beryllium, Be	METAL	0.963	0.599	0.58	0.626	0.406	0.6	0.292	0.502	0.249	2.73	0.805	0.709	0.781	0.816	0.229	<0.05	<0.05	<0.05	<0.05	<0.05	0.16 or SB	0.0-1.75	0.003
Barium, Ba	METAL	197	180	778	1435	178	226	46.3	33.4	318	139	516	285	2971	395	72.2	0.413	0.06	0.09	0.309	0.102	300 or SB	15-600	1
Arsenic, As	METAL	6.36	9.8	5.41	15.6	7.38	6.21	2.23	3.74	3.59	3.99	26.6	11.3	30.8	56	3.37	<0.05	<0.05	<0.05	<0.05	<0.05	7.5 or SB	3.0-12	0.025
Aluminum, Al	METAL	6210	7128	6351	3431	4066	5193	2890	9030	3403	9443	7383	8665	3991	6582	9089	0.325	0.239	0.279	0.416	0.249	SB	33,000	0.1
Silver, Ag	METAL	0.147	0.319	0.166	3.63	0.586	0.604	0.19	0.08	0.18	0.07	12.5	0.632	1.7	1.32	0.288	<0.05	<0.05	<0.05	<0.05	<0.05	SB	NA	0.05

Bold values represent concentrations above guidance values  
ND: Not Detected  
NA: Not Applicable



RI TABLE 2  
ELM Supplemental Site Investigation 2012  
Soil Analytical Data - VOCs  
514-520 West 28th Street

Sample ID Laboratory ID Sample Media Sample Date Depth of Water Unit of Measure	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB3_3 L1213978-01 Soil 8/2/2012 NA mg/Kg	SB3_11 L1213978-02 Soil 8/2/2012 NA mg/Kg	SB4_4 L1213978-03 Soil 8/2/2012 NA mg/Kg	SB4_13 L1213978-04 Soil 8/2/2012 NA mg/Kg	SB5_8 L1213978-05 Soil 8/2/2012 NA mg/Kg	SB1_10 L1213978-06 Soil 8/3/2012 NA mg/Kg	SB1_13.5 L1213978-07 Soil 8/3/2012 NA mg/Kg	SB2_4 L1213978-08 Soil 8/3/2012 NA mg/Kg	SB2_10 L1213978-09 Soil 8/3/2012 NA mg/Kg	DUP_1 L1213978-10 Soil 8/3/2012 NA mg/Kg
VOLATILE ORGANIC COMPOUNDS												
1,1,1,2-TETRACHLOROETHANE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
1,1,1-TRICHLOROETHANE	0.68	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
1,1,2,2-TETRACHLOROETHANE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0072	0.0027 U	0.0028 U	0.0027 U
1,1,2-TRICHLOROETHANE	NS	NS	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0043 U	0.0041 U	0.0042 U	0.0041 U
1,1-DICHLOROETHANE	0.27	26.00	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0043 U	0.0041 U	0.0042 U	0.0041 U
1,1-DICHLOROETHENE	0.33	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
1,1-DICHLOROPROPENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,3-TRICHLOROBENZENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,3-TRICHLOROPROPANE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
1,2,4,5-TETRAMETHYLBENZENE	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.0006 J	0.011 U	0.011 U	0.011 U
1,2,4-TRICHLOROBENZENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,4-TRIMETHYLBENZENE	3.60	52.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.0034 J	0.014 U	0.014 U	0.014 U
1,2-DIBROMO-3-CHLOROPROPANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-DIBROMOETHANE	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
1,2-DICHLOROBENZENE	1.10	100.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-DICHLOROETHANE	0.02	3.10	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
1,2-DICHLOROPROPANE	NS	NS	0.01 U	0.01 U	0.0099 U	0.01 U	0.0094 U	0.0098 U	0.01 U	0.0096 U	0.0097 U	0.0096 U
1,3,5-TRIMETHYLBENZENE	8.40	52.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.005 J	0.014 U	0.014 U	0.014 U
1,3-DICHLOROBENZENE	2.40	49.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,3-DICHLOROPROPANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,4-DICHLOROBENZENE	1.80	13.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.0018 J	0.014 U	0.014 U	0.014 U
1,4-DIETHYLBENZENE	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
1,4-DIOXANE	0.10	13.00	<i>0.29 U</i>	<i>0.3 U</i>	<i>0.28 U</i>	<i>0.3 U</i>	<i>0.27 U</i>	<i>0.28 U</i>	<i>0.29 U</i>	<i>0.27 U</i>	<i>0.28 U</i>	<i>0.27 U</i>
2,2-DICHLOROPROPANE	NS	NS	0.02 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
2-BUTANONE	0.12	100.00	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029	0.027 U	0.028 U	0.027 U
2-HEXANONE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
4-ETHYLTOLUENE	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.0016 J	0.0024 J	0.011 U	0.011 U	0.011 U
4-METHYL-2-PENTANONE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
ACETONE	0.05	100.00	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	<b>0.064</b>	<b>0.15</b>	0.027 U	0.028 U	0.027 U
ACRYLONITRILE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
BENZENE	0.06	4.80	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
BROMOBENZENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U

Notes:  
Italicized value indicates reporting limit exceeds standard  
Bold value indicates concentration exceeds Unrestricted SCOs  
Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
U = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

RI TABLE 2  
ELM Supplemental Site Investigation 2012  
Soil Analytical Data - VOCs  
514-520 West 28th Street

Sample ID Laboratory ID Sample Media Sample Date Depth of Water Unit of Measure	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB3_3 L1213978-01 Soil 8/2/2012 NA mg/Kg	SB3_11 L1213978-02 Soil 8/2/2012 NA mg/Kg	SB4_4 L1213978-03 Soil 8/2/2012 NA mg/Kg	SB4_13 L1213978-04 Soil 8/2/2012 NA mg/Kg	SB5_8 L1213978-05 Soil 8/2/2012 NA mg/Kg	SB1_10 L1213978-06 Soil 8/3/2012 NA mg/Kg	SB1_13.5 L1213978-07 Soil 8/3/2012 NA mg/Kg	SB2_4 L1213978-08 Soil 8/3/2012 NA mg/Kg	SB2_10 L1213978-09 Soil 8/3/2012 NA mg/Kg	DUP_1 L1213978-10 Soil 8/3/2012 NA mg/Kg
BROMOCHLOROMETHANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
BROMODICHLOROMETHANE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
BROMOFORM	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
BROMOMETHANE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
CARBON DISULFIDE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.0066 J	0.027 U	0.028 U	0.027 U
CARBON TETRACHLORIDE	0.76	2.40	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
CHLORO BENZENE	1.10	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
CHLOROETHANE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
CHLOROFORM	0.37	49.00	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0043 U	0.0041 U	0.0042 U	0.0041 U
CHLOROMETHANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
CIS-1,2-DICHLOROETHENE	0.25	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
CIS-1,3-DICHLOROPROPENE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
DIBROMOCHLOROMETHANE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
DIBROMOMETHANE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
DICHLORODIFLUOROMETHANE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
ETHYL ETHER	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
ETHYLBENZENE	1.00	41.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
HEXACHLOROBUTADIENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
ISOPROPYLBENZENE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
METHYL TERT BUTYL ETHER	0.93	100.00	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
METHYLENE CHLORIDE	0.05	100.00	0.029 U	0.01 J	0.0091 J	0.0084 J	0.011 J	0.028 U	0.029 U	0.0062 J	0.006 J	0.027 U
N-BUTYLBENZENE	12.00	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
N-PROPYLBENZENE	3.90	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
NAPHTHALENE	12.00	100.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.0026 J	0.014 U	0.014 U	0.014 U
O-CHLOROTOLUENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
O-XYLENE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
P-CHLOROTOLUENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
P-ISOPROPYLTOLUENE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
P/M-XYLENE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0026 J	0.0027 J	0.0055 U	0.0056 U	0.0055 U
SEC-BUTYLBENZENE	11.00	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
STYRENE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
TERT-BUTYLBENZENE	5.90	100.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
TETRACHLOROETHENE	1.30	19.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
TOLUENE	0.70	100.00	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0023 J	0.0041 U	0.0042 U	0.0041 U
TRANS-1,2-DICHLOROETHENE	0.19	100.00	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0043 U	0.0041 U	0.0042 U	0.0041 U
TRANS-1,3-DICHLOROPROPENE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
TRANS-1,4-DICHLORO-2-BUTENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
TRICHLOROETHENE	0.47	21.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
TRICHLOROFLUOROMETHANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
VINYL ACETATE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
VINYL CHLORIDE	0.02	0.90	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
TOTAL XYLENES	0.26	100.00	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0026 J	0.0027 J	0.0055 U	0.0056 U	0.0055 U

Notes:  
Italicized value indicates reporting limit exceeds standard  
Bold value indicates concentration exceeds Unrestricted SCOs  
Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
U = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

**RI TABLE 3**  
**ELM Supplemental Site Investigation 2012**  
**Soil Analytical Data - SVOCs**  
**514-520 West 28th Street**

Sample ID	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB3_3 L1213978-01 Soil 8/2/2012 NA mg/Kg	SB3_11 L1213978-02 Soil 8/2/2012 NA mg/Kg	SB4_4 L1213978-03 Soil 8/2/2012 NA mg/Kg	SB4_13 L1213978-04 Soil 8/2/2012 NA mg/Kg	SB5_8 L1213978-05 Soil 8/2/2012 NA mg/Kg	SB1_10 L1213978-06 Soil 8/3/2012 NA mg/Kg	SB1_13.5 L1213978-07 Soil 8/3/2012 NA mg/Kg	SB2_4 L1213978-08 Soil 8/3/2012 NA mg/Kg	SB2_10 L1213978-09 Soil 8/3/2012 NA mg/Kg	DUP_1 L1213978-10 Soil 8/3/2012 NA mg/Kg
Laboratory ID												
Sample Media												
Sample Date												
Depth of Water												
Unit of Measure												
<b>SEMIVOLATILE ORGANIC COMPOUNDS</b>												
1,2,4,5-TETRACHLOROBENZENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
1,2,4-TRICHLOROBENZENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
1,2-DICHLOROBENZENE	1.10	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	2.40	49.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
1,4-DICHLOROBENZENE	1.80	13.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2,4,5-TRICHLOROPHENOL	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2,4,6-TRICHLOROPHENOL	NS	NS	1.2 U	0.12 U	1.1 U	0.12 U	0.11 U	1.1 U	1.1 U	0.11 U	0.11 U	0.11 U
2,4-DICHLOROPHENOL	NS	NS	1.7 U	0.18 U	1.7 U	0.18 U	0.16 U	1.6 U	1.7 U	0.16 U	0.16 U	0.16 U
2,4-DIMETHYLPHENOL	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2,4-DINITROPHENOL	NS	NS	9.3 U	0.96 U	8.9 U	0.94 U	0.85 U	8.8 U	9.1 U	0.87 U	0.88 U	0.87 U
2,4-DINITROTOLUENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2,6-DINITROTOLUENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-CHLORONAPHTHALENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-CHLOROPHENOL	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-METHYLNAPHTHALENE	NS	NS	2.3 U	0.24 U	2.2 U	0.24 U	0.21 U	2.2 U	2.3 U	0.22 U	0.22 U	0.22 U
2-METHYLPHENOL	0.33	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-NITROANILINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-NITROPHENOL	NS	NS	4.2 U	0.43 U	4 U	0.42 U	0.38 U	4 U	4.1 U	0.39 U	0.39 U	0.39 U
3,3'-DICHLOROBENZIDINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
3-METHYLPHENOL/4-METHYLPHENOL	0.33	100.00	2.8 U	0.29 U	2.6 U	0.28 U	0.26 U	2.6 U	2.7 U	0.26 U	0.26 U	0.26 U
3-NITROANILINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4,6-DINITRO-O-CRESOL	NS	NS	5 U	0.52 U	4.8 U	0.51 U	0.46 U	4.8 U	4.9 U	0.47 U	0.48 U	0.47 U
4-BROMOPHENYL PHENYL ETHER	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4-CHLOROANILINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4-CHLOROPHENYL PHENYL ETHER	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4-NITROANILINE	NS	NS	1.9 U	0.2 U	1.8 U	0.20 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4-NITROPHENOL	NS	NS	2.7 U	0.28 U	2.6 U	0.27 U	0.25 U	2.6 U	2.7 U	0.25 U	0.26 U	0.25 U
ACENAPHTHENE	20.00	100.00	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.20	0.15 U	0.22
ACENAPHTHYLENE	100.00	100.00	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.14 U	0.15 U	0.06 J
ACETOPHENONE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
ANTHRACENE	100.00	100.00	1.2 U	0.12 U	0.47 J	0.12 U	0.11 U	1.1 U	1.1 U	0.44	0.11 U	0.57

**Notes:**

Italicized value indicates reporting limit exceeds standard  
 Bold value indicates concentration exceeds Unrestricted SCOs  
 Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs  
 J = Estimated value  
 U = Not detected  
 NS = No Standard  
 \* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
 \*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

**RI TABLE 3**  
**ELM Supplemental Site Investigation 2012**  
**Soil Analytical Data - SVOCs**  
**514-520 West 28th Street**

Sample ID Laboratory ID Sample Media Sample Date Depth of Water Unit of Measure	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB3_3 L1213978-01 Soil 8/2/2012 NA mg/Kg	SB3_11 L1213978-02 Soil 8/2/2012 NA mg/Kg	SB4_4 L1213978-03 Soil 8/2/2012 NA mg/Kg	SB4_13 L1213978-04 Soil 8/2/2012 NA mg/Kg	SB5_8 L1213978-05 Soil 8/2/2012 NA mg/Kg	SB1_10 L1213978-06 Soil 8/3/2012 NA mg/Kg	SB1_13.5 L1213978-07 Soil 8/3/2012 NA mg/Kg	SB2_4 L1213978-08 Soil 8/3/2012 NA mg/Kg	SB2_10 L1213978-09 Soil 8/3/2012 NA mg/Kg	DUP_1 L1213978-10 Soil 8/3/2012 NA mg/Kg
BENZO(A)ANTHRACENE	1.00	1.00	0.41 J	0.12 U	1.5	0.12 U	0.11 U	1.1 U	1.1 U	0.92	0.11 U	1.00
BENZO(A)PYRENE	1.00	1.00	1.6 U	0.16 U	1.3 J	0.16 U	0.14 U	1.5 U	1.5 U	0.81	0.15 U	0.84
BENZO(B)FLUORANTHENE	1.00	1.00	0.43 J	0.12 U	1.6	0.12 U	0.11 U	1.1 U	1.1 U	1	0.11 U	0.95
BENZO(GHI)PERYLENE	100.00	100.00	1.6 U	0.16 U	0.84 J	0.16 U	0.14 U	1.5 U	1.5 U	0.48	0.15 U	0.44
BENZO(K)FLUORANTHENE	0.80	3.90	1.2 U	0.12 U	0.68 J	0.12 U	0.11 U	1.1 U	1.1 U	0.32	0.11 U	0.49
BENZOIC ACID	NS	NS	6.3 U	0.65 U	6 U	0.64 U	0.58 U	6 U	6.2 U	0.58 U	0.59 U	0.59 U
BENZYL ALCOHOL	NS	NS	1.90 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
BIPHENYL	NS	NS	4.4 U	0.46 U	4.2 U	0.45 U	0.4 U	4.2 U	4.3 U	0.41 U	0.42 U	0.41 U
BIS(2-CHLOROETHOXY)METHANE	NS	NS	2.1 U	0.22 U	2 U	0.21 U	0.19 U	2 U	2 U	0.2 U	0.2 U	0.20 U
BIS(2-CHLOROETHYL)ETHER	NS	NS	1.7 U	0.18 U	1.7 U	0.18 U	0.16 U	1.6 U	1.7 U	0.16 U	0.16 U	0.16 U
BIS(2-CHLOROISOPROPYL)ETHER	NS	NS	2.3 U	0.24 U	2.2 U	0.24 U	0.21 U	2.2 U	2.3 U	0.22 U	0.22 U	0.22 U
BIS(2-ETHYLHEXYL)PHTHALATE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
BUTYL BENZYL PHTHALATE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
CARBAZOLE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.2	0.18 U	0.23
CHRYSENE	1.00	3.90	0.38 J	0.12 U	1.7	0.12 U	0.11 U	1.1 U	1.1 U	0.89	0.11 U	0.99
DI-N-BUTYLPHTHALATE	NS	NS	1.90 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
DI-N-OCTYLPHTHALATE	NS	NS	1.90 U	0.2 U	1.8 U	0.20 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
DIBENZO(A,H)ANTHRACENE	0.33	0.33	1.2 U	0.12 U	1.1 U	0.12 U	0.11 U	1.1 U	1.1 U	0.1 J	0.11 U	0.09 J
DIBENZOFURAN	7.00	59.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.11 J	0.18 U	0.16 J
DIETHYL PHTHALATE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
DIMETHYL PHTHALATE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
FLUORANTHENE	100.00	100.00	0.79 J	0.12 U	3.3	0.12 U	0.11 U	1.1 U	1.1 U	2.40	0.11 U	2.60
FLUORENE	30.00	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.14 J	0.18 U	0.18
HEXACHLOROBENZENE	0.33	1.20	1.2 U	0.12 U	1.1 U	0.12 U	0.11 U	1.1 U	1.1 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
HEXACHLOROCYCLOPENTADIENE	NS	NS	5.6 U	0.58 U	5.3 U	0.56 U	0.51 U	5.3 U	5.4 U	0.52 U	0.52 U	0.52 U
HEXACHLOROETHANE	NS	NS	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.14 U	0.15 U	0.14 U
INDENO(1,2,3-CD)PYRENE	0.50	0.50	1.6 U	0.16 U	1 J	0.16 U	0.14 U	1.5 U	1.5 U	0.54	0.15 U	0.53
ISOPHORONE	NS	NS	1.7 U	0.18 U	1.7 U	0.18 U	0.16 U	1.6 U	1.7 U	0.16 U	0.16 U	0.16 U
N-NITROSODI-N-PROPYLAMINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
NAPHTHALENE	12.00	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.07 J
NITROBENZENE	NS	15.00	1.7 U	0.18 U	1.7 U	0.18 U	0.16 U	1.6 U	1.7 U	0.16 U	0.16 U	0.16 U
NITROSODIPHENYLAMINE (NDPA)/DPA	NS	NS	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.14 U	0.15 U	0.14 U
P-CHLORO-M-CRESOL	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
PENTACHLOROPHENOL	0.80	6.7	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.14 U	0.15 U	0.14 U
PHENANTHRENE	100.00	100.00	0.64 J	0.12 U	2.7	0.12 U	0.11 U	1.1 U	1.1 U	2.2	0.11 U	2.40
PHENOL	0.33	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
PYRENE	100.00	100.00	0.66 J	0.12 U	2.9	0.12 U	0.11 U	1.1 U	1.1 U	2.1	0.11 U	2.20

**Notes:**

Italicized value indicates reporting limit exceeds standard  
 Bold value indicates concentration exceeds Unrestricted SCOs  
 Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs  
 J = Estimated value  
 U = Not detected  
 NS = No Standard  
 \* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
 \*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

RI TABLE 4  
ELM Supplemental Site Investigation 2012  
Soil Analytical Data - Metals  
514-520 West 28th Street

Sample ID			SB3_3	SB3_11	SB4_4	SB4_13	SB5_8
Laboratory ID			L1213978-01	L1213978-02	L1213978-03	L1213978-04	L1213978-05
Sample Media			Soil	Soil	Soil	Soil	Soil
Sample Date			8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Depth of Water			NA	NA	NA	NA	NA
Unit of Measure			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>METALS</b>							
ALUMINUM	NS	NS	5300	11000	3900	5400	9900
ANTIMONY	NS	NS	1.1 J	1.5 J	2.8 J	0.89 J	1.2 J
ARSENIC	13.00	16.00	8.6	2.7	5.2	1.2	4
BARIUM	350.00	400.00	<b>1000</b>	110	<b>660</b>	46	80
BERYLLIUM	7.20	72.00	0.28 J	0.7	0.16 J	0.32 J	0.35 J
CADMIUM	2.50	4.30	0.7 J	0.93 U	0.74 J	0.9 U	0.82 U
CALCIUM	NS	NS	48000	3000	46000	1500	30000
COBALT	NS	NS	4.7	9	3.1	4.4	8
COPPER	50.00	270.00	31	18	26	11	22
IRON	NS	NS	8800	19000	9500	10000	13000
LEAD	63.00	400.00	<b>580</b>	15	<b>390</b>	5.7	16
MAGNESIUM	NS	NS	3500	4100	2500	2000	21000
MANGANESE	1600.00	2000.00	250	610	210	90	660
MERCURY	0.18	0.81	<b>0.34</b>	0.09 U	<b>0.41</b>	0.08 U	0.03 J
NICKEL	30.00	310.00	19	21	12	14	23
POTASSIUM	NS	NS	1300	3100	830	1200	3700
SELENIUM	3.90	180.00	0.95 J	0.81 J	0.39 J	1.8 U	1.6 U
SILVER	2.00	180.00	0.9 U	0.93 U	0.16 J	0.9 U	0.82 U
SODIUM	NS	NS	520	410	320	200	410
THALLIUM	NS	NS	1.8 U	1.8 U	1.7 U	1.8 U	0.8 J
VANADIUM	NS	NS	18	27	15	18	17
ZINC	109.00	10000.00	<b>760</b>	44	<b>610</b>	20	33
CYANIDE	27.00	27.00	1.1	1.2 U	1.3	1.1 U	1.1 U
HEXAVALENT CHROMIUM	1.00	110.00	0.94 U	0.23 J	0.91 U	0.95 U	0.86 U
TRIVALENT CHROMIUM	30.00	180.00	18	20	8.7	14	16

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

RI TABLE 4  
ELM Supplemental Site Investigation 2012  
Soil Analytical Data - Metals  
514-520 West 28th Street

Sample ID			SB1_10	SB1_13.5	SB2_4	SB2_10	DUP_1
Laboratory ID			L1213978-06	L1213978-07	L1213978-08	L1213978-09	L1213978-10
Sample Media	Part 375	Part 375	Soil	Soil	Soil	Soil	Soil
Sample Date	Unrestricted Use	Restricted	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012
Depth of Water	SCOs*	Residential	NA	NA	NA	NA	NA
Unit of Measure		SCOs**	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>METALS</b>							
ALUMINUM	NS	NS	12000	8000	11000	11000	12000
ANTIMONY	NS	NS	1.7 J	1.7 J	1.9 J	1.6 J	1.8 J
ARSENIC	13.00	16.00	2.2	2.3	3.1	4.1	3.5
BARIUM	350.00	400.00	57	140	93	44	110
BERYLLIUM	7.20	72.00	0.45	0.42 J	0.49	0.43	0.53
CADMIUM	2.50	4.30	1.7	0.88 U	0.84 U	0.85 U	0.84 U
CALCIUM	NS	NS	4000	3600	7000	1000	9700
COBALT	NS	NS	6.1	5.8	9.5	7.1	10
COPPER	50.00	270.00	14	16	30	17	36
IRON	NS	NS	15000	12000	18000	18000	20000
LEAD	63.00	400.00	30	<b>75</b>	56	8.8	<b>73</b>
MAGNESIUM	NS	NS	3300	2600	5000	3700	5500
MANGANESE	1600.00	2000.00	220	210	400	370	690
MERCURY	0.18	0.81	0.12	<b>0.25</b>	<b>0.74</b>	0.09 U	<b>0.61</b>
NICKEL	30.00	310.00	15	14	21	18	22
POTASSIUM	NS	NS	1300	1100	3700	960	4400
SELENIUM	3.90	180.00	0.31 J	0.72 J	1.7 U	0.42 J	0.46 J
SILVER	2.00	180.00	0.85 U	0.88 U	0.84 U	0.85 U	0.84 U
SODIUM	NS	NS	230	240	340	220	470
THALLIUM	NS	NS	1.7 U	1.8 U	1.7 U	1.7 U	0.6 J
VANADIUM	NS	NS	20	19	23	19	24
ZINC	109.00	10000.00	43	45	57	38	62
CYANIDE	27.00	27.00	1 U	1 U	1 U	1.1 U	1.1 U
HEXAVALENT CHROMIUM	1.00	110.00	0.9 U	0.92 U	0.21 J	0.89 U	0.33 J
TRIVALENT CHROMIUM	30.00	180.00	18	16	18	15	17

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

RI TABLE 5  
ELM Supplemental Site Investigation 2012  
Soil Analytical Data - PCBs  
514-520 West 28th Street

Sample ID			SB3_3	SB3_11	SB4_4	SB4_13	SB5_8
Laboratory ID			L1213978-01	L1213978-02	L1213978-03	L1213978-04	L1213978-05
Sample Media	Part 375	Part 375	Soil	Soil	Soil	Soil	Soil
Sample Date	Unrestricted Use	Restricted	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Depth of Water	SCOs*	Residential	NA	NA	NA	NA	NA
Unit of Measure		SCOs**	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>POLYCHLORINATED BIPHENYLS</b>							
AROCLOR 1016	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1221	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1232	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1242	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1248	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1254	NS	NS	0.0376 U	0.0393 U	0.0482	0.038 U	0.0354 U
AROCLOR 1260	NS	NS	0.0376 U	0.0393 U	0.06	0.038 U	0.0354 U
TOTAL PCBs	0.10	1.00	0.0376 U	0.0393 U	<b>0.11</b>	0.038 U	0.0354 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

RI TABLE 5  
ELM Supplemental Site Investigation 2012  
Soil Analytical Data - PCBs  
514-520 West 28th Street

Sample ID			SB1_10	SB1_13.5	SB2_4	SB2_10	DUP_1
Laboratory ID			L1213978-06	L1213978-07	L1213978-08	L1213978-09	L1213978-10
Sample Media	Part 375	Part 375	Soil	Soil	Soil	Soil	Soil
Sample Date	Unrestricted Use	Restricted	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012
Depth of Water	SCOs*	Residential	NA	NA	NA	NA	NA
Unit of Measure		SCOs**	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>POLYCHLORINATED BIPHENYLS</b>							
AROCLOR 1016	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1221	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1232	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1242	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1248	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1254	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1260	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
TOTAL PCBs	0.10	1.00	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential



RI TABLE 6  
ELM Supplemental Site Investigation 2012  
Soil Analytical Data - Pesticides  
514-520 West 28th Street

Sample ID			SB3_3	SB3_11	SB4_4	SB4_13	SB5_8
Laboratory ID			L1213978-01	L1213978-02	L1213978-03	L1213978-04	L1213978-05
Sample Media			Soil	Soil	Soil	Soil	Soil
Sample Date			8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Depth of Water			NA	NA	NA	NA	NA
Unit of Measure			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>PESTICIDES</b>							
4,4'-DDD	0.0033	13.00	<i>0.0093 U</i>	0.00182 U	<b>0.0063 J</b>	0.00181 U	0.00165 U
4,4'-DDE	0.0033	8.90	<i>0.0093 U</i>	0.00182 U	<i>0.0087 U</i>	0.00181 U	0.00165 U
4,4'-DDT	0.0033	7.90	<i>0.0174 U</i>	<i>0.0034 U</i>	<b>0.0244</b>	<i>0.0034 U</i>	0.0031 U
ALDRIN	0.0050	0.10	<i>0.0093 U</i>	0.00182 U	<i>0.0087 U</i>	0.00181 U	0.00165 U
ALPHA-BHC	0.0200	0.48	0.00387 U	0.00076 U	0.00361 U	0.00076 U	0.00069 U
BETA-BHC	0.0360	0.36	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
CHLORDANE	NS	NS	0.0755 U	0.0148 U	0.0705 U	0.0147 U	0.0134 U
CIS-CHLORDANE	0.0940	4.20	0.0116 U	0.00228 U	0.0108 U	0.00227 U	0.00206 U
DELTA-BHC	0.0400	100.00	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
DIELDRIN	0.0050	0.20	<i>0.0058 U</i>	0.00114 U	<b>0.0074</b>	0.00113 U	0.00103 U
ENDOSULFAN I	2.4000	24.00	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
ENDOSULFAN II	2.4000	24.00	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
ENDOSULFAN SULFATE	2.4000	24.00	0.00387 U	0.00076 U	0.00361 U	0.00076 U	0.00069 U
ENDRIN	0.0140	11.00	0.00387 U	0.00076 U	0.00477	0.00076 U	0.00069 U
ENDRIN KETONE	NS	NS	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
HEPTACHLOR	0.0420	2.10	0.00465 U	0.00091 U	0.00434 U	0.00091 U	0.00083 U
HEPTACHLOR EPOXIDE	NS	NS	0.02 U	0.00342 U	0.0163 U	0.00 U	0.0031 U
LINDANE	0.1000	1.30	0.00387 U	0.00076 U	0.00361 U	0.00076 U	0.00069 U
METHOXYCHLOR	NS	NS	0.0174 U	0.00342 U	0.0163 U	0.0034 U	0.0031 U
TOXAPHENE	NS	NS	0.174 U	0.0342 U	0.163 U	0.034 U	0.031 U
TRANS-CHLORDANE	NS	NS	0.0116 U	0.00228 U	0.0108 U	0.00227 U	0.00206 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

**RI TABLE 6**  
**ELM Supplemental Site Investigation 2012**  
**Soil Analytical Data - Pesticides**  
**514-520 West 28th Street**

Sample ID			SB1_10	SB1_13.5	SB2_4	SB2_10	DUP_1
Laboratory ID			L1213978-06	L1213978-07	L1213978-08	L1213978-09	L1213978-10
Sample Media	Part 375	Part 375	Soil	Soil	Soil	Soil	Soil
Sample Date	Unrestricted Use	Restricted	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012
Depth of Water	SCOs*	Residential	NA	NA	NA	NA	NA
Unit of Measure		SCOs**	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>PESTICIDES</b>							
4,4'-DDD	0.0033	13.00	<i>0.0089 U</i>	<i>0.0087 U</i>	<i>0.0083 U</i>	0.00177 U	0.00176 U
4,4'-DDE	0.0033	8.90	<i>0.0089 U</i>	<i>0.0087 U</i>	<i>0.0083 U</i>	0.00177 U	0.00176 U
4,4'-DDT	0.0033	7.90	<i>0.0166 U</i>	<i>0.0163 U</i>	<i>0.0155 U</i>	<i>0.0033 U</i>	0.00329 U
ALDRIN	0.0050	0.10	<i>0.0089 U</i>	<i>0.0087 U</i>	<i>0.0083 U</i>	0.00177 U	0.00176 U
ALPHA-BHC	0.0200	0.48	0.0037 U	0.00363 U	0.00345 U	0.00074 U	0.00073 U
BETA-BHC	0.0360	0.36	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
CHLORDANE	NS	NS	0.0721 U	0.0708 U	0.0673 U	0.0144 U	0.0143 U
CIS-CHLORDANE	0.0940	4.20	0.0111 U	0.0109 U	0.0104 U	0.00221 U	0.0022 U
DELTA-BHC	0.0400	100.00	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
DIELDRIN	0.0050	0.20	<i>0.0055 U</i>	<i>0.0054 U</i>	<i>0.0052 U</i>	0.0011 U	0.0011 U
ENDOSULFAN I	2.4000	24.00	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
ENDOSULFAN II	2.4000	24.00	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
ENDOSULFAN SULFATE	2.4000	24.00	0.0037 U	0.00363 U	0.00345 U	0.00074 U	0.00073 U
ENDRIN	0.0140	11.00	0.0037 U	0.00363 U	0.00345 U	0.00074 U	0.00073 U
ENDRIN KETONE	NS	NS	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
HEPTACHLOR	0.0420	2.10	0.00444 U	0.00435 U	0.00414 U	0.00088 U	0.00088 U
HEPTACHLOR EPOXIDE	NS	NS	0.0166 U	0.0163 U	0.02 U	0.00331 U	0.00329 U
LINDANE	0.1000	1.30	0.0037 U	0.00363 U	0.00345 U	0.00074 U	0.00073 U
METHOXYCHLOR	NS	NS	0.0166 U	0.0163 U	0.0155 U	0.00331 U	0.00329 U
TOXAPHENE	NS	NS	0.166 U	0.163 U	0.155 U	0.0331 U	0.0329 U
TRANS-CHLORDANE	NS	NS	0.0111 U	0.0109 U	0.0104 U	0.00221 U	0.0022 U

**Notes:**

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

**RI TABLE 7**  
**ELM Supplemental Site Investigation 2012**  
**Groundwater Analytical Data - VOCs**  
**514-520 West 28th Street**

Sample ID		MW-1_081012 L1214402-01	MW-2_081012 L1214402-02	MW-3_081012 L1214402-03	MW-4_081012 L1214402-04	FIELD_DUP_081012 L1214402-05
Laboratory ID		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Media	NYSDEC TOGS AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Sample Date		NA	NA	NA	NA	NA
Depth of Water		µg/L	µg/L	µg/L	µg/L	µg/L
Unit of Measure						
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-TETRACHLOROETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,1,1-TRICHLOROETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	2.5 U	0.5 U	0.5 U	2.5 U
1,1,2-TRICHLOROETHANE	1	<i>1.5 U</i>	<i>7.5 U</i>	<i>1.5 U</i>	<i>1.5 U</i>	<i>7.5 U</i>
1,1-DICHLOROETHANE	5	2.5 U	<b>8.4 J</b>	2.5 U	2.5 U	<b>9.9 J</b>
1,1-DICHLOROETHENE	5	0.5 U	2.5	0.5 U	0.5 U	3
1,1-DICHLOROPROPENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2,3-TRICHLOROBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2,3-TRICHLOROPROPANE	0.04	<i>2.5 U</i>	<i>12 U</i>	<i>2.5 U</i>	<i>2.5 U</i>	<i>12 U</i>
1,2,4,5-TETRAMETHYLBENZENE	NS	2 U	10 U	2 U	2 U	10 U
1,2,4-TRICHLOROBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2,4-TRIMETHYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<i>2.5 U</i>	<i>12 U</i>	<i>2.5 U</i>	<i>2.5 U</i>	<i>12 U</i>
1,2-DIBROMOETHANE	0.0006	<i>2 U</i>	<i>10 U</i>	<i>2 U</i>	<i>2 U</i>	<i>10 U</i>
1,2-DICHLOROBENZENE	3	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2-DICHLOROETHANE	0.6	0.5 U	<i>2.5 U</i>	0.5 U	0.5 U	<i>2.5 U</i>
1,2-DICHLOROPROPANE	1	1 U	<i>5 U</i>	1 U	1 U	<i>5 U</i>
1,3,5-TRIMETHYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,3-DICHLOROBENZENE	3	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,3-DICHLOROPROPANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,4-DICHLOROBENZENE	3	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,4-DIETHYLBENZENE	NS	2 U	10 U	2 U	2 U	10 U
1,4-DIOXANE	NS	250 U	1200 U	250 U	250 U	1200 U
2,2-DICHLOROPROPANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
2-BUTANONE	50	5 U	25 U	1.9 J	5 U	25 U
2-HEXANONE	50	5 U	25 U	5 U	5 U	25 U
4-ETHYLTOLUENE	NS	2 U	10 U	2 U	2 U	10 U
4-METHYL-2-PENTANONE	NS	5 U	25 U	5 U	5 U	25 U
ACETONE	50	1.8 J	25 U	12	1.5 J	25 U
ACRYLONITRILE	5	5 U	<i>25 U</i>	5 U	5 U	<i>25 U</i>
BENZENE	1	0.5 U	<i>2.5 U</i>	0.5 U	0.5 U	<i>2.5 U</i>

**Notes:**

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

RI TABLE 7  
ELM Supplemental Site Investigation 2012  
Groundwater Analytical Data - VOCs  
514-520 West 28th Street

Sample ID		MW-1_081012 L1214402-01	MW-2_081012 L1214402-02	MW-3_081012 L1214402-03	MW-4_081012 L1214402-04	FIELD_DUP_081012 L1214402-05
Laboratory ID	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Media	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Sample Date		NA	NA	NA	NA	NA
Depth of Water		µg/L	µg/L	µg/L	µg/L	µg/L
Unit of Measure						
<b>VOLATILE ORGANIC COMPOUNDS</b>						
BROMOBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
BROMOCHLOROMETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
BROMODICHLOROMETHANE	50	0.5 U	2.5 U	0.5 U	0.5 U	2.5 U
BROMOFORM	50	2 U	10 U	2 U	2 U	10 U
BROMOMETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
CARBON DISULFIDE	60	5 U	25 U	5 U	5 U	25 U
CARBON TETRACHLORIDE	5	0.5 U	2.5 U	0.5 U	0.5 U	2.5 U
CHLOROBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
CHLOROETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
CHLOROFORM	7	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
CHLOROMETHANE	NS	2.5 U	12 U	2.5 U	2.5 U	12 U
CIS-1,2-DICHLOROETHENE	5	1.9 J	<b>220</b>	2.5 U	2.5 U	<b>260</b>
CIS-1,3-DICHLOROPROPENE	0.4	<i>0.5 U</i>	<i>2.5 U</i>	<i>0.5 U</i>	<i>0.5 U</i>	<i>2.5 U</i>
DIBROMOCHLOROMETHANE	50	0.5 U	2.5 U	0.5 U	0.5 U	2.5 U
DIBROMOMETHANE	5	5 U	<i>25 U</i>	5 U	5 U	<i>25 U</i>
DICHLORODIFLUOROMETHANE	5	5 U	<i>25 U</i>	5 U	5 U	<i>25 U</i>
ETHYL ETHER	NS	2.5 U	12 U	2.5 U	2.5 U	12 U
ETHYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
HEXACHLOROBUTADIENE	0.5	<i>2.5 U</i>	<i>12 U</i>	<i>2.5 U</i>	<i>2.5 U</i>	<i>12 U</i>
ISOPROPYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
METHYL TERT BUTYL ETHER	10	0.95 J	5.3 J	2.5 U	2.5 U	5.6 J
METHYLENE CHLORIDE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
N-BUTYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
N-PROPYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
NAPHTHALENE	10	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
O-CHLOROTOLUENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
O-XYLENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
P-CHLOROTOLUENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
P-ISOPROPYLTOLUENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
P/M-XYLENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
SEC-BUTYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

RI TABLE 7  
ELM Supplemental Site Investigation 2012  
Groundwater Analytical Data - VOCs  
514-520 West 28th Street

Sample ID		MW-1_081012 L1214402-01	MW-2_081012 L1214402-02	MW-3_081012 L1214402-03	MW-4_081012 L1214402-04	FIELD_DUP_081012 L1214402-05
Laboratory ID	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Media	AWQS*					
Sample Date		8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>VOLATILE ORGANIC COMPOUNDS</b>						
STYRENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
TERT-BUTYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
TETRACHLOROETHENE	5	0.97	2.5 U	0.5 U	0.59	2.5 U
TOLUENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
TRANS-1,2-DICHLOROETHENE	5	2.5 U	4 J	2.5 U	2.5 U	4.8 J
TRANS-1,3-DICHLOROPROPENE	0.4	<i>0.5 U</i>	<i>2.5 U</i>	<i>0.5 U</i>	<i>0.5 U</i>	<i>2.5 U</i>
TRANS-1,4-DICHLORO-2-BUTENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
TRICHLOROETHENE	5	0.5 U	2.5 U	0.31 J	0.8	2.5 U
TRICHLOROFLUOROMETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
VINYL ACETATE	NS	5 U	25 U	5 U	5 U	25 U
VINYL CHLORIDE	2	1 U	<i>5 U</i>	1 U	1 U	<i>5 U</i>

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

RI TABLE 8  
ELM Supplemental Site Investigation 2012  
Groundwater Analytical Data - SVOCs  
514-520 West 28th Street

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>SEMIVOLATILE ORGANIC COMPOUNDS</b>						
1,2,4,5-TETRACHLOROBENZENE	5	<i>10 U</i>	<i>10 U</i>	<i>10 U</i>	<i>10 U</i>	<i>10 U</i>
1,2,4-TRICHLOROBENZENE	5	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROBENZENE	3	2 U	2 U	2 U	2 U	2 U
1,3-DICHLOROBENZENE	3	2 U	2 U	2 U	2 U	2 U
1,4-DICHLOROBENZENE	3	2 U	2 U	2 U	2 U	2 U
2,4,5-TRICHLOROPHENOL	NS	5 U	5 U	5 U	5 U	5 U
2,4,6-TRICHLOROPHENOL	NS	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	1	<i>5 U</i>	<i>5 U</i>	<i>5 U</i>	<i>5 U</i>	<i>5 U</i>
2,4-DIMETHYLPHENOL	50	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	10	<i>20 U</i>	<i>20 U</i>	<i>20 U</i>	<i>20 U</i>	<i>20 U</i>
2,4-DINITROTOLUENE	5	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	NS	2 U	2 U	2 U	2 U	2 U
2-METHYLPHENOL	NS	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	5	5 U	5 U	5 U	5 U	5 U
2-NITROPHENOL	NS	10 U	10 U	10 U	10 U	10 U
3,3'-DICHLOROBENZIDINE	5	5 U	5 U	5 U	5 U	5 U
3-METHYLPHENOL/4-METHYLPHENOL	NS	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	5	5 U	5 U	5 U	5 U	5 U
4,6-DINITRO-O-CRESOL	NS	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	NS	2 U	2 U	2 U	2 U	2 U
4-CHLOROANILINE	5	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	NS	2 U	2 U	2 U	2 U	2 U
4-NITROANILINE	5	5 U	<i>5 U</i>	5 U	5 U	<i>5 U</i>
4-NITROPHENOL	NS	10 U	<i>10 U</i>	10 U	10 U	<i>10 U</i>
ACETOPHENONE	NS	5 U	<i>5 U</i>	5 U	5 U	<i>5 U</i>
BENZOIC ACID	NS	50 U	50 U	13 J	50 U	50 U
BENZYL ALCOHOL	NS	2 U	<i>2 U</i>	0.74 J	2 U	<i>2 U</i>
BIPHENYL	NS	2 U	2 U	2 U	2 U	2 U
BIS(2-CHLOROETHOXY)METHANE	5	5 U	5 U	5 U	5 U	5 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

RI TABLE 8  
ELM Supplemental Site Investigation 2012  
Groundwater Analytical Data - SVOCs  
514-520 West 28th Street

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>SEMIVOLATILE ORGANIC COMPOUNDS</b>						
BIS(2-CHLOROETHYL)ETHER	1	2 U	2 U	2 U	2 U	2 U
BIS(2-CHLOROISOPROPYL)ETHER	5	2 U	2 U	2 U	2 U	2 U
BIS(2-ETHYLHEXYL)PHTHALATE	5	3 U	3 U	6.1	3 U	3 U
BUTYL BENZYL PHTHALATE	50	5 U	5 U	0.83 J	5 U	5 U
CARBAZOLE	NS	2 U	2 U	2 U	2 U	2 U
DI-N-BUTYLPHTHALATE	50	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYLPHTHALATE	50	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	NS	2 U	2 U	2 U	2 U	2 U
DIETHYL PHTHALATE	50	5 U	5 U	0.58 J	5 U	5 U
DIMETHYL PHTHALATE	50	5 U	5 U	5 U	5 U	5 U
HEXACHLOROCYCLOPENTADIENE	5	20 U	20 U	20 U	20 U	20 U
ISOPHORONE	50	5 U	5 U	5 U	5 U	5 U
N-NITROSODI-N-PROPYLAMINE	NS	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	0.4	2 U	2 U	2 U	2 U	2 U
NITROSODIPHENYLAMINE(NDPA)/DPA	50	2 U	2 U	2 U	2 U	2 U
P-CHLORO-M-CRESOL	NS	2 U	2 U	2 U	2 U	2 U
PHENOL	1	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	10	0.2 U	0.2 U	1 U	0.2 U	0.2 U
2-METHYLNAPHTHALENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
ACENAPHTHENE	20	0.2 U	0.2 U	1 U	0.2 U	0.2 U
ACENAPHTHYLENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
ANTHRACENE	50	0.2 U	0.2 U	1 U	0.2 U	0.2 U
BENZO(A)ANTHRACENE	NS	0.2 U	0.2 U	0.38 J	0.2 U	0.2 U
BENZO(A)PYRENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
BENZO(B)FLUORANTHENE	0.002	0.2 U	0.2 U	0.4 J	0.2 U	0.2 U
BENZO(GHI)PERYLENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
BENZO(K)FLUORANTHENE	0.002	0.2 U	0.2 U	1 U	0.2 U	0.2 U
CHRYSENE	0.002	0.29	0.2 U	0.48 J	0.2 U	0.2 U
DIBENZO(A,H)ANTHRACENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
FLUORANTHENE	50	0.2 U	0.2 U	0.83 J	0.08 J	0.2 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

RI TABLE 8  
ELM Supplemental Site Investigation 2012  
Groundwater Analytical Data - SVOCs  
514-520 West 28th Street

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>SEMIVOLATILE ORGANIC COMPOUNDS</b>						
FLUORENE	50	0.06 J	0.2 U	1 U	0.2 U	0.2 U
HEXACHLOROBENZENE	0.04	<i>0.8 U</i>	<i>0.8 U</i>	<i>4 U</i>	<i>0.8 U</i>	<i>0.8 U</i>
HEXACHLOROBUTADIENE	0.5	0.5 U	0.5 U	<i>2.5 U</i>	0.5 U	0.5 U
HEXACHLOROETHANE	5	0.8 U	0.8 U	4 U	0.8 U	0.8 U
INDENO(1,2,3-CD)PYRENE	0.002	<i>0.2 U</i>	<i>0.2 U</i>	<i>1 U</i>	<i>0.2 U</i>	<i>0.2 U</i>
NAPHTHALENE	10	0.2 U	0.2 U	1 U	0.2 U	0.2 U
PENTACHLOROPHENOL	1	0.8 U	0.8 U	<i>4 U</i>	0.8 U	0.8 U
PHENANTHRENE	50	0.2 U	0.2 U	1 U	0.2 U	0.2 U
PYRENE	50	0.16 J	0.2 U	0.64 J	0.08 J	0.2 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)



RI TABLE 9  
ELM Supplemental Site Investigation 2012  
Groundwater Analytical Data - Metals  
514-520 West 28th Street

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>TOTAL METALS</b>						
ALUMINUM	NS	23300	38900	17800	333	30400
ANTIMONY	3	5 U	5 U	5 U	5 U	5 U
ARSENIC	25	11.8	12.2	7.5	5 U	10.1
BARIUM	1000	439.9	546	543	72.2	443.9
BERYLLIUM	3	1.8 J	2.3 J	1.5 J	5 U	2.5 J
CADMIUM	5	5 U	5 U	0.7 J	5 U	5 U
CALCIUM	NS	206000	71300	268000	399000	73700
CHROMIUM	50	<b>287</b>	<b>89.1</b>	<b>62.7</b>	5.9 J	<b>75</b>
COBALT	NS	29.3	29.8	18	1.1 J	24.3
COPPER	200	85.7	109.6	88.1	9.3 J	100.9
IRON	300	<b>40600</b>	<b>49000</b>	<b>27700</b>	<b>972</b>	<b>37900</b>
LEAD	25	<b>89.1</b>	<b>84.4</b>	<b>158.9</b>	3.8 J	<b>67.1</b>
MAGNESIUM	35000	29500	<b>59000</b>	<b>37000</b>	<b>49200</b>	<b>61000</b>
MANGANESE	300	<b>4213</b>	<b>2190</b>	<b>3113</b>	61.9	<b>1935</b>
MERCURY	1	0.3	0.3	0.3	0.2 U	0.2
NICKEL	100	<b>294.4</b>	81.4	69.1	9.7	79.9
POTASSIUM	NS	24000	33600	38300	84800	34800
SELENIUM	10	3 J	9 J	<b>12 J</b>	<b>28 J</b>	9 J
SILVER	50	5 U	2.1 J	1.5 J	5 U	5 U
SODIUM	20000	<b>77800</b>	<b>171000</b>	<b>40600</b>	<b>79900</b>	<b>171000</b>
THALLIUM	1	5 U	5 U	5 U	5 U	5 U
VANADIUM	NS	64.1	55.5	37.4 J	2 J	52.5
ZINC	2000	131.2	161.9	206.7	23.6 J	132.3

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

RI TABLE 9  
ELM Supplemental Site Investigation 2012  
Groundwater Analytical Data - Metals  
514-520 West 28th Street

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>DISSOLVED METALS</b>						
ALUMINUM	NS	50 U	26 J	50 U	12 J	17 J
ANTIMONY	3	2.1 J	2.6 J	2.3 J	2.5 J	1.5 J
ARSENIC	25	2.5 U	1.1 J	2.5 U	2.5 U	1.2 J
BARIUM	1000	146.3	142.1	62.6	56.3	114.1
BERYLLIUM	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CALCIUM	NS	170000	62600	209000	385000	60600
CHROMIUM	50	5 U	5 U	2.9 J	2.9 J	5 U
COBALT	NS	2.9	2.5 U	1.1 J	0.6 J	0.7 J
COPPER	200	4.4 J	3 J	5.7	6.5	3.5 J
IRON	300	89 J	250 U	86 J	158 J	250 U
LEAD	25	5 U	5 U	5 U	5 U	5 U
MAGNESIUM	35000	20800	<b>53000</b>	23500	<b>44100</b>	<b>45200</b>
MANGANESE	300	<b>2582</b>	<b>606</b>	<b>1286</b>	41.3	<b>756.5</b>
MERCURY	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL	100	20	3	5.7	7.1	14.8
POTASSIUM	NS	18700	28400	33000	84600	28300
SELENIUM	10	25 U	7 J	10 J	<b>25</b>	6 J
SILVER	50	2.5 U	3	2.5 U	2.5 U	2.5 U
SODIUM	20000	<b>78200</b>	<b>134000</b>	<b>39600</b>	<b>73400</b>	<b>147000</b>
THALLIUM	0.5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
VANADIUM	NS	0.8 J	3.1 J	0.7 J	1 J	3.9 J
ZINC	2000	50 U	50 U	50 U	50 U	50 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

RI TABLE 10  
ELM Supplemental Site Investigation 2012  
Groundwater Analytical Data - PCBs  
514-520 West 28th Street

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>POLYCHLORINATED BIPHENYLS</b>						
AROCLOR 1016	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1221	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1232	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1242	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1248	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1254	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1260	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
TOTAL PCBs	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

RI TABLE 11  
ELM Supplemental Site Investigation 2012  
Groundwater Analytical Data - Pesticides  
514-520 West 28th Street

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>PESTICIDES</b>						
2,4,5-T	35.000	2 U	2.02 U	2.05 U	2.09 U	2.05 U
2,4,5-TP (SILVEX)	NS	2 U	2.02 U	2.05 U	2.09 U	2.05 U
2,4-D	50.0	10 U	10.1 U	10.2 U	10.5 U	10.2 U
4,4'-DDD	0.3	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	0.200	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	0.20	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
ALDRIN	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
ALPHA-BHC	0.010	<i>0.02 U</i>	<i>0.02 U</i>	<i>0.02 U</i>	<i>0.02 U</i>	<i>0.02 U</i>
BETA-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
CHLORDANE	0.05	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>
CIS-CHLORDANE	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
DELTA-BHC	0.040	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
DIELDRIN	0.004	<i>0.04 U</i>	<i>0.04 U</i>	<i>0.04 U</i>	<i>0.04 U</i>	<i>0.04 U</i>
ENDOSULFAN I	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
ENDOSULFAN II	NS	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
ENDOSULFAN SULFATE	NS	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
ENDRIN	NS	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
ENDRIN KETONE	5	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
HEPTACHLOR	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
HEPTACHLOR EPOXIDE	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
LINDANE	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
METHOXYCHLOR	35	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TOXAPHENE	0.06	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>
TRANS-CHLORDANE	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

RI TABLE 12  
ELM Supplemental Site Investigation 2012  
Soil Vapor Analytical Data - VOCs  
514-520 West 28th Street

Sample ID Laboratory ID Sample Media Sample Date Unit of Measure	NYSDOH AGVs*	SV-1 L1214017-01 Vapor 8/1/2012 µg/m3	SV-3 L1214017-02 Vapor 8/1/2012 µg/m3	SV-4 L1214017-03 Vapor 8/1/2012 µg/m3
<b>VOLATILE ORGANIC COMPOUNDS (TO-15)</b>				
1,1,1-TRICHLOROETHANE**	NS	17.20	12.80	107.00
1,1,2,2-TETRACHLOROETHANE	NS	3.43 U	6.87 U	6.87 U
1,1,2-TRICHLOROETHANE	NS	2.73 U	5.46 U	5.46 U
1,1-DICHLOROETHANE	NS	2.02 U	4.05 U	6.07
1,1-DICHLOROETHENE**	NS	1.98 U	3.96 U	3.96 U
1,2,4-TRICHLOROBENZENE	NS	3.71 U	7.42 U	7.42 U
1,2,4-TRIMETHYLBENZENE	NS	9.00	31.30	6.98
1,2-DIBROMOETHANE	NS	3.84 U	7.68 U	7.68 U
1,2-DICHLOROBENZENE	NS	3.01 U	6.01 U	6.01 U
1,2-DICHLOROETHANE	NS	2.02 U	4.05 U	4.05 U
1,2-DICHLOROPROPANE	NS	2.31 U	4.62 U	4.62 U
1,3,5-TRIMETHYBENZENE	NS	2.46 U	9.19	4.92 U
1,3-BUTADIENE	NS	2.37	7.92	5.26
1,3-DICHLOROBENZENE	NS	3.01 U	6.01 U	6.01 U
1,4-DICHLOROBENZENE	NS	3.01 U	6.01 U	6.01 U
1,4-DIOXANE	NS	1.80 U	3.60 U	3.60 U
2,2,4-TRIMETHYLPENTANE	NS	2.34 U	4.67 U	4.67 U
2-BUTANONE	NS	67.50	103.00	46.90
2-HEXANONE	NS	10.90	13.40	10.70
3-CHLOROPROPENE	NS	1.56 U	3.13 U	3.13 U
4-ETHYLTOLUENE	NS	2.46 U	9.04	4.92 U
4-METHYL-2-PENTANONE	NS	10.20	15.90	11.40
ACETONE	NS	401.00	596.00	226.00
BENZENE	NS	2.29	13.70	3.70
BENZYL CHLORIDE	NS	2.59 U	5.18 U	5.18 U
BROMODICHLOROMETHANE	NS	3.35 U	6.70 U	6.70 U
BROMOFORM	NS	5.17 U	10.30 U	10.30 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds NYSDOH AGV

U = Not detected

NS = No Standard

\* = New York State Department of Health (NYSDOH) Air Guidance Values (AGVs)

\*\* = Volatile Organic Compounds subject to NYSDOH Soil Vapor/Indoor Decision Matrices

RI TABLE 12  
ELM Supplemental Site Investigation 2012  
Soil Vapor Analytical Data - VOCs  
514-520 West 28th Street

Sample ID Laboratory ID Sample Media Sample Date Unit of Measure	NYSDOH AGVs*	SV-1 L1214017-01 Vapor 8/1/2012 µg/m3	SV-3 L1214017-02 Vapor 8/1/2012 µg/m3	SV-4 L1214017-03 Vapor 8/1/2012 µg/m3
<b>VOLATILE ORGANIC COMPOUNDS (TO-15)</b>				
BROMOMETHANE	NS	1.94 U	3.88 U	3.88 U
CARBON DISULFIDE	NS	3.30	16.60	3.18
CARBON TETRACHLORIDE**	NS	3.14 U	6.29 U	6.29 U
CHLOROBENZENE	NS	2.30 U	4.60 U	4.60 U
CHLOROETHANE	NS	1.32 U	2.64 U	2.64 U
CHLOROFORM	NS	2.88	4.88 U	8.20
CHLOROMETHANE	NS	1.03 U	2.06 U	2.06 U
CIS-1,2-DICHLOROETHENE**	NS	1.98 U	4.44	3.96 U
CIS-1,3-DICHLOROPROPENE	NS	2.27 U	4.54 U	4.54 U
CYCLOHEXANE	NS	1.72 U	3.44 U	3.44 U
DIBROMOCHLOROMETHANE	NS	4.26 U	8.52 U	8.52 U
DICHLORODIFLUOROMETHANE	NS	2.47 U	4.94 U	64.30
ETHANOL	NS	140.00	70.10	90.60
ETHYL ACETATE	NS	4.50 U	9.01 U	9.01 U
ETHYLBENZENE	NS	2.17 U	13.70	4.34 U
FREON-113	NS	3.83 U	7.66 U	12.90
FREON-114	NS	3.49 U	6.99 U	6.99 U
HEPTANE	NS	5.00	17.40	4.88
HEXACHLOROBUTADIENE	NS	5.33 U	10.70 U	10.70 U
ISOPROPANOL	NS	3.07 U	6.14 U	25.10
METHYL TERT BUTYL ETHER	NS	1.80 U	3.60 U	3.60 U
METHYLENE CHLORIDE	60.00	8.68 U	17.40 U	17.40 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds NYSDOH AGV

U = Not detected

NS = No Standard

\* = New York State Department of Health (NYSDOH) Air Guidance Values (AGVs)

\*\* = Volatile Organic Compounds subject to NYSDOH Soil Vapor/Indoor Decision Matrices

RI TABLE 12  
ELM Supplemental Site Investigation 2012  
Soil Vapor Analytical Data - VOCs  
514-520 West 28th Street

Sample ID Laboratory ID Sample Media Sample Date Unit of Measure	NYSDOH AGVs*	SV-1 L1214017-01 Vapor 8/1/2012 µg/m3	SV-3 L1214017-02 Vapor 8/1/2012 µg/m3	SV-4 L1214017-03 Vapor 8/1/2012 µg/m3
<b>VOLATILE ORGANIC COMPOUNDS (TO-15)</b>				
N-HEXANE	NS	5.64	17.10	5.18
O-XYLENE	NS	2.48	12.20	4.34 U
P/M-XYLENE	NS	5.12	33.50	8.69 U
PROPYLENE	NS	2.51	93.80	61.40
STYRENE	NS	2.13 U	4.26 U	4.26 U
TETRACHLOROETHENE	100.00	<b>308.00</b>	<b>460.00</b>	<b>169.00</b>
TETRAHYDROFURAN	NS	4.22	2.95 U	2.95 U
TOLUENE	NS	9.34	28.40	4.22
TRANS-1,2-DICHLOROETHENE	NS	1.98 U	3.96 U	3.96 U
TRANS-1,3-DICHLOROPROPENE	NS	2.27 U	4.54 U	4.54 U
TRICHLOROETHENE	5.00	2.69 U	<b>20.40</b>	<b>100.00</b>
TRICHLOROFLUOROMETHANE	NS	226.00	338.00	1570.00
VINYL ACETATE	NS	10.30	3.52 U	3.52 U
VINYL BROMIDE	NS	2.19 U	4.37 U	4.37 U
VINYL CHLORIDE**	NS	1.28 U	2.56 U	2.56 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds NYSDOH AGV

U = Not detected

NS = No Standard

\* = New York State Department of Health (NYSDOH) Air Guidance Values (AGVs)

\*\* = Volatile Organic Compounds subject to NYSDOH Soil Vapor/Indoor Decision Matrices

RI TABLE 13  
514-520 West 28<sup>th</sup> Street  
RI Sampling and Analysis Table

Sample ID	QA/QC	Matrix	Sample Depth	Drilling Method	Sampling Method	Analytical Method	Rationale	Deviation from the RIWP
SB-6	SB-25(7-9) Duplicate	Soil	N/A	Geoprobe	PID Screening / Grab	VOCs by EPA 5035/5035A; SVOCs by EPA 8270B; TAL Metals by 6010B/7470A; Cyanide by EPA 9013; Hex Chrom by EPA 3060A; PCBs by EPA 8082; Pesticides by 8081A	Evaluate potential soil impacts from upgradient offsite source	Refusal encountered
SB-7, SB-9, SB- 10, and SB-12			SB-7(0-2; 7-9); SB-9(1-3; 3-5); SB-10(0-2; 8-10); SB-12 (1-3; 7-9)				Evaluate potential soil impacts from the chlorinated solvent AOC located in the NW portion of the site	None
SB-8, SB- 12 to SB- 16, SB- 22, SB-23 and SB- 25 to SB- 28			SB-8(0-2; 8-10); SB-12/SB-13 (1-3; 7-9); SB-14(0-2; 7-9); SB-15/SB-22 (0-2; 8-10); SB-23(0-2; 7-9); SB-25/SB-28 (1-3; 7-9); SB-26 (0-2; 7-9) SB-16(7-9)				General Site Coverage; Data Gaps; Site Characterization	None



RI TABLE 13  
514-520 West 28<sup>th</sup> Street  
RI Sampling and Analysis Table

Sample ID	QA/QC	Matrix	Sample Depth	Drilling Method	Sampling Method	Analytical Method	Rationale	Deviation from the RIWP
SB-11	SB-16(7-9) Duplicate	Soil	SB-11(1-3; 7-9)	Geoprobe	PID Screening / Grab	VOCs by EPA 5035/5035A; SVOCs by EPA 8270B; TAL Metals by 6010B/7470A; Cyanide by EPA 9013; Hex Chrom by EPA 3060A; PCBs by EPA 8082; Pesticides by 8081A	Contingent boring to be conducted if impacts are found in the chlorinated solvent AOC	Collected based on PID readings in boring SB-9
SB-17 and SB- 18			SB-17/SB-18 (1-3; 7-9)				Evaluate potential soil impacts from onsite gasoline USTs	None
SB-19, SB-20 and SB- 21			N/A				Contingent borings to be conducted if impacts are found in SB- 17/SB-18	Not collected due to the absence of impacts observed in SB-17/SB-18

RI TABLE 13  
514-520 West 28<sup>th</sup> Street  
RI Sampling and Analysis Table

Sample ID	QA/QC	Matrix	Sample Depth	Drilling Method	Sampling Method	Analytical Method	Rationale	Deviation from the RIWP
MW-1, MW-2, MW-3, MW-4	MW-5 Duplicate	Groundwater	8-10 Feet	Installed in 2012	Low Flow Peristaltic Pump	VOCs by EPA 8260B; SVOCs by EPA 8270C; TAL Metals by 6010B/7470A filtered and unfiltered	Evaluate groundwater flow direction, Estimate impacts to on- site groundwater	MW-1 was not sampled due to the presence of NAPL
MW-5				Geoprobe with a Hollow Stem Auger	Low Flow Peristaltic Pump	VOCs by EPA 8260B; SVOCs by EPA 8270C; TAL Metals by 6010B/7470A filtered and unfiltered;	Evaluate groundwater flow direction and the potential impacts from offsite source (s)	Refusal Encountered
MW-6						PCBs by EPA 8082; Pesticides by EPA 8081A	Evaluate groundwater flow direction and the nature and extent of groundwater impacts in the chlorinated solvent AOC	MW-6 was designated MW-5

RI TABLE 13  
514-520 West 28<sup>th</sup> Street  
RI Sampling and Analysis Table

Sample ID	QA/QC	Matrix	Sample Depth	Drilling Method	Sampling Method	Analytical Method	Rationale	Deviation from the RIWP
SV-5	SV-8 Duplicate	Soil Vapor	N/A	Soil Vapor Probe (Geoprobe or Hammer Drill)	2 Hour Summa Canister	VOCs by EPA TO-15	Evaluate potential offsite source for onsite contamination	Refusal Encountered
SV-6 to SV-11			5 Feet				Estimate soil vapor impacts along the property boundary and potential to migrate offsite	None
SV-12		Soil Vapor	5 Feet				Evaluate potential offsite source for onsite contamination	None

Table 14  
Soil Analytical Data - Volatile Organic Compounds  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID	Part 375	Part 375	SB-7_0-2	SB-7_7-9	SB-22_0-2	SB-22_8-10	SB-14_0-2	SB-14_7-9	SB-12_1-3	SB-12_7-9	SB-9_1-3	SB-9_3-5	SB-13_1-3	SB-13_7-9	SB-18_1-3	SB-18_7-9	SB-8_0-2	SB-8_8-10	SB-28_1-3	SB-28_7-9	SB-25_1-3	SB-25_7-9	SB-25_7-9_FIELD-DUP
Laboratory ID	Unrestricted Use	Restricted	L1306694-01	L1306694-02	L1306810-02	L1306810-03	L1306810-04	L1306810-05	L1307016-01	L1307016-02	L1307016-03	L1307016-04	L1307016-05	L1307016-06	L1307016-07	L1307016-08	L1307016-09	L1307016-10	L1307016-11	L1307016-12	L1307016-13	L1307016-14	L1307016-15
Sample Date	SCOs*	SCOs**	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013
Unit of Measure			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
VOLATILE ORGANIC COMPOUNDS																							
1,1,1,2-TETRACHLOROETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	0.68	100	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	0.27	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHENE	0.33	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROPROPENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TRICHLOROPROPANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-TETRAMETHYLBENZENE	NS	NS	0.3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033J	ND	ND	ND	ND	ND	ND	ND	0.0022J	ND	ND
1,2,4-TRICHLOROBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	3.6	52	0.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0059J	ND	ND	ND	ND	ND	ND	ND	0.046	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DIBROMOETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	0.02	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	8.4	52	0.22J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0029J	ND	ND	ND	ND	ND	ND	ND	0.017		

Notes:

**Bold and *Italicized*** value indicates concentration exceeds Unrestricted SCOs

**Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs**

J = Estimated value

ND = Not detected

NS = Not Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 14  
Soil Analytical Data - Volatile Organic Compounds  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID	Part 375	Part 375	SB-27, 1-3	SB-27, 7-9	SB-10, 1-3	SB-10, 8-10	SB-15, 0-2	SB-15, 8-10	SB-16, 1-3	SB-16, 7-9	SB-16, 7-9-FIELD-DUP	SB-24, 1-3	SB-24, 8-10	SB-23, 0-2	SB-23, 7-9	SB-17, 1-3	SB-17, 7-9	SB-11, 1-3	SB-11, 7-9	SB-7, 0-2	SB-7, 7-9	SB-26, 0-2	SB-26, 7-9		
Laboratory ID	Unrestricted Use	Residential	L1307016-16	L1307016-17	L1307016-18	L1307016-19	L1307016-20	L1307016-21	L1307016-22	L1307016-23	L1307016-24	L1307016-25	L1307016-26	L1307016-27	L1307016-28	L1307016-29	L1307016-30	L1307016-31	L1307016-32	L1307016-33	L1307016-34	L1307016-37	L1307016-38		
Sample Date		SCOs*	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/18/2013	4/18/2013		
Unit of Measure		SCOs**	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg		
VOLATILE ORGANIC COMPOUNDS																									
1,1,1,2-TETRACHLOROETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.52	ND	ND	ND	ND	ND		
1,1,1-TRICHLOROETHANE	0.68	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1,2,2-TETRACHLOROETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1,2-TRICHLOROETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1-DICHLOROETHANE	0.27	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1-DICHLOROETHENE	0.33	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1-DICHLOROPROPENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2,3-TRICHLOROBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2,3-TRICHLOROPROPANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2,4,5-TETRAMETHYLBENZENE	NS	NS	0.43J	ND	0.0005J	ND	ND	ND	0.074J	ND	ND	ND	ND	ND	ND	0.00023J	ND	0.44	ND	ND	ND	0.17J	ND		
1,2,4-TRICHLOROBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2,4-TRIMETHYLBENZENE	3.6	52	1.7J	ND	0.00086J	ND	ND	ND	0.29J	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	0.34J	ND		
1,2-DIBROMO-3-CHLOROPROPANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-DIBROMOETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-DICHLOROBENZENE	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-DICHLOROETHANE	0.02	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-DICHLOROPROPANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,3,5-TRIMETHYLBENZENE	8.4	52	ND	ND	ND	ND	ND	ND	0.12J	ND	ND	ND	ND	ND	ND	ND	0.54	ND	ND	ND	0.19J	ND	ND		
1,3-DICHLOROBENZENE	2.4	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,3-DICHLOROPROPANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,4-DICHLOROBENZENE	1.8	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,4-DIETHYLBENZENE	NS	NS	2.6J	ND	0.001J	ND	ND	ND	0.14J	ND	ND	ND	ND	ND	ND	0.00033J	ND	1.1	ND	ND	ND	0.48	ND		
1,4-DIOXANE	0.1	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2,2-DICHLOROPROPANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2-BUTANONE	0.12	100	ND	ND	0.0021J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13J	ND		
2-HEXANONE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
4-ETHYLTOLUENE	NS	NS	2.4J	ND	0.00064J	ND	ND	ND	0.1J	ND	ND	ND	ND	ND	ND	ND	0.92	ND	0.035J	ND	0.25J	ND	ND		
4-METHYL-2-PENTANONE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
ACETONE	0.05	100	ND	ND	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0053J	ND	0.31J	ND	ND	ND	0.48J	ND		
ACRYLONITRILE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BENZENE	0.06	4.8	ND	ND	0.001J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.046J	ND		
BROMOBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BROMOCHLOROMETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BROMODICHLOROMETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BROMOFORM	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BROMOMETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CARBON DISULFIDE	NS	NS	ND	ND	0.0036J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CARBON TETRACHLORIDE	0.76	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CHLOROBENZENE	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CHLOROETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CHLOROFORM	0.37	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013J	0.001J	ND	ND	ND	ND	ND	ND	ND	ND		
CHLOROMETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CIS-1,2-DICHLOROETHENE	0.25	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24	ND	ND	ND	ND	ND		
CIS-1,3-DICHLOROPROPENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
DIBROMOCHLOROMETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
DIBROMOMETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
DICHLORODIFLUOROMETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
ETHYL ETHER	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
ETHYLBENZENE	1	41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44	ND	ND	ND	ND	0.31	ND		
HEXACHLOROBUTADIENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
ISOPROPYLBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND	0.073J	ND		
METHYL TERT BUTYL ETHER	0.93	100	ND	ND	ND	ND	ND	ND	ND																

**Table 15**  
**Soil Analytical Data -Semivolatile Organic Compounds**

Sample ID			Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	S8-7, 0-2 L1306694-01 4/16/2013 mg/Kg	S8-7, 7-9 L1306694-02 4/16/2013 mg/Kg	S8-22, 0-2 L1306810-02 4/16/2013 mg/Kg	S8-22, 8-10 L1306810-03 4/16/2013 mg/Kg	S8-14, 0-2 L1306810-04 4/16/2013 mg/Kg	S8-14, 7-9 L1306810-05 4/16/2013 mg/Kg	S8-12, 1-3 L1307016-01 4/18/2013 mg/Kg	S8-12, 7-9 L1307016-02 4/18/2013 mg/Kg	S8-9, 1-3 L1307016-03 4/18/2013 mg/Kg	S8-9, 3-5 L1307016-04 4/18/2013 mg/Kg	S8-13, 1-3 L1307016-05 4/18/2013 mg/Kg	S8-13, 7-9 L1307016-06 4/18/2013 mg/Kg	S8-18, 1-3 L1307016-07 4/18/2013 mg/Kg	S8-18, 7-9 L1307016-08 4/18/2013 mg/Kg	S8-8, 0-2 L1307016-09 4/18/2013 mg/Kg	S8-8, 8-10 L1307016-10 4/18/2013 mg/Kg	S8-28, 1-3 L1307016-11 4/18/2013 mg/Kg	S8-28, 7-9 L1307016-12 4/18/2013 mg/Kg	S8-25, 1-3 L1307016-13 4/18/2013 mg/Kg	S8-25, 7-9 L1307016-14 4/18/2013 mg/Kg	S8-25, 7-9, FIELD-DUP L1307016-15 4/18/2013 mg/Kg	S8-27, 1-3 L1307016-16 4/18/2013 mg/Kg
Laboratory ID	Sample Date	Unit of Measure	SEMIVOLATILE ORGANIC COMPOUNDS																							
1,2,4,5-TETRACHLOROBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	2.4	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	1.8	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TRICHLOROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-TRICHLOROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DICHLOROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DIMETHYLPHENOL	NS	NS	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6J
2,4-DINITROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DINITROTOLUENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.087J	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-DINITROTOLUENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-CHLORONAPHTHALENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-CHLOROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYLNAPHTHALENE	NS	NS	0.66	ND	ND	ND	ND	ND	ND	ND	0.18J	ND	0.32J	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYLPHENOL	NS	NS	0.088J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-NITROANILINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-NITROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-DICHLOROBENZIDINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-METHYLPHENOL/4-METHYLPHENOL	NS	NS	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7J
3-NITROANILINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-DINITRO-O-CRESOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-BROMOPHENYL PHENYL ETHER	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-CHLOROANILINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-CHLOROPHENYL PHENYL ETHER	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-NITROANILINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-NITROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPHTHENE	20	100	0.58	ND	0.18J	ND	0.11J	ND	ND	0.36	ND	0.12J	ND	2.9	0.089J	ND	ND	ND	ND	ND	ND	ND	0.14J	ND	ND	97
ACENAPHTHYLENE	100	100	ND	ND	0.12J	0.045J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	0.052J	0.056J	ND	ND	ND	0.42	ND	ND	55	
ACETOPHENONE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ANTHRACENE	100	100	1.4	ND	0.37	0.1J	0.23	ND	0.042J	0.04J	0.35	0.057J	0.16J	ND	4.3	0.24	0.17	ND	0.054J	0.037J	0.82	ND	ND	ND	200	
BENZO(A)ANTHRACENE	1	1	3.7	ND	0.88	0.22	0.5	ND	0.17	0.05J	1.4	0.15	0.38	ND	11	0.67	0.5	ND	0.23	0.12	4	ND	ND	ND	360	
BENZO(A)PYRENE	1	1	2.5	ND	0.88	0.31	0.58	ND	0.16	ND	1.3	0.15J	0.36	ND	9.6	0.59	0.43	ND	0.2	0.1J	3.9	ND	ND	ND	230	
BENZO(B)FLUORANTHENE	1	1	3.1	ND	1.1	0.33	0.76	ND	0.2	0.046J	1.7	0.18	0.48	ND	12	0.73	0.53	ND	0.27	0.14	5	ND	ND	ND	400	
BENZO(GH)PERYLENE	100	100	1.4	ND	0.7	0.23	0.49	ND	0.11J	ND	0.8	0.078J	0.24J	ND	5.8	0.37	0.25	ND	0.14J	0.094J	2.1	ND	ND	ND	160	
BENZO(K)FLUORANTHENE	0.8	3.9	1.4	ND	0.49	0.13	0.23	ND	0.083J	ND	0.67	0.071J	0.17J	ND	4.6	0.25	0.19	ND	0.11J	0.055J	1.8	ND	ND	ND	110	
BENZOIC ACID	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BENZYL ALCOHOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BIPHENYL	NS	NS	0.16J	ND	ND	ND	ND	ND	ND	ND	0.077J	ND	ND	0.29J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14J
BIS(2-CHLOROETHOXY)METHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BIS(2-CHLOROETHYL)ETHER	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BIS(2-CHLOROISOPROPYL)ETHER	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BIS(2-ETHYLHEXYL)PHTHALATE	NS	NS	ND	ND	ND	0.1J	0.67	ND	ND	ND	0.15J	ND	4.1	ND	ND	ND	ND	ND	0.18J	ND	3.1	ND	ND	ND	ND	
BUTYL BENZYL PHTHALATE	NS	NS	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	0.22J	ND	ND	ND	ND	
CARBAZOLE	NS	NS	0.47	ND	ND	0.055J	0.11J	ND	ND	ND	0.19	ND	ND	ND	ND	2.3	0.1J	0.063J	ND	ND	0.29J	ND	ND	ND	73	
CHRYSENE	1	3.9	3	ND	0.89	0.24	0.53	ND	0.18	0.05J	1.4	0.18	0.42	ND	12	0.73	0.5	ND	0.23	0.13	3.6	ND	ND	ND	250	
DIBENZO(A,H)ANTHRACENE	0.33	0.33	0.27	ND	0.19	0.064J	0.14	ND	ND	ND	0.2	ND	0.14	ND	1.4	0.09J	0.059J	ND	ND	ND	0.54	ND	ND	ND	41	
DIBENZOFURAN	7	59	0.41	ND	0.098J	ND	0.082J	ND	ND	ND	0.32	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	69	
DIETHYL PHTHALATE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DIMETHYL PHTHALATE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DI-N-BUTYLPHTHALATE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND	ND	ND	ND	ND	
DI-N-OCTYLPHTHALATE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
FLUORANTHENE	100	100	5.7	ND	1.8	0.43	0.94	ND	0.4	0.13	3.2	0.38	1.1	ND	26	1.5	1.2	ND	0.4	0.27	ND	ND	ND	ND	940	
FLUORENE	30	100	0.62	ND	0.14J	ND	0.1J	ND	ND	ND	0.31	ND	ND	ND	2.7	0.09J	ND	ND	ND	0.22J	ND	ND	ND	ND	110	
HEXACHLOROBENZENE	0.33	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
HEXACHLOROBUTADIENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
HEXACHLOROCYCLOPENTADIENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
HEXACHLOROETHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
INDENO(1,2,3-CD)PYRENE	0.5	0.5	1.4	ND	0.56	0.21	0.42	ND	ND	0.12J	ND	0.89	0.094J	0.25J	ND	6.3	0.38	0.27	ND	0.14J	0.097J	2.5	ND	ND	130	
ISOPHORONE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
NAPHTHALENE	12	100	0.79	ND	0.11J	ND	0.085J	ND	ND	ND	0.75	ND	0.24J	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	
NITROBENZENE	NS	15	ND	ND	ND	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
NITROSODIPHENYLAMINE(NDPA)/DPA	NS	NS	ND	ND																						

Notes:

**Bold and *Italicized*** value indicates concentration exceeds Unrestricted SCOs

**Bold and shaded** value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

ND = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 15  
Soil Analytical Data -Semivolatile Organic Compounds  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID	Part 375	Part 375	SB-27_7-9	SB-10_1-3	SB-10_8-10	SB-15_0-2	SB-15_8-10	SB-16_1-3	SB-16_7-9	SB-16_7-9-FIELD-DUP	SB-24_1-3	SB-24_8-10	SB-23_0-2	SB-23_7-9	SB-17_1-3	SB-17_7-9	SB-11_1-3	SB-11_7-9	SB-7_0-2	SB-7_7-9	SB-26_0-2	SB-26_7-9	
Laboratory ID	Unrestricted Use	Restricted Residential	L1307016-17	L1307016-18	L1307016-19	L1307016-20	L1307016-21	L1307016-22	L1307016-23	L1307016-24	L1307016-25	L1307016-26	L1307016-27	L1307016-28	L1307016-29	L1307016-30	L1307016-31	L1307016-32	L1307016-33	L1307016-34	L1307016-37	L1307016-38	
Sample Date			4/18/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/18/2013	4/18/2013	
Unit of Measure			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
SEMIVOLATILE ORGANIC COMPOUNDS																							
1,2,4,5-TETRACHLOROBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-TRICHLOROBENZENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-DICHLOROBENZENE	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-DICHLOROBENZENE	2.4	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-DICHLOROBENZENE	1.8	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4,5-TRICHLOROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4,6-TRICHLOROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-DICHLOROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-DIMETHYLPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-DINITROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-DINITROTOLUENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,6-DINITROTOLUENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-CHLORONAPHTHALENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-CHLOROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-METHYLNAPHTHALENE	NS	NS	ND	ND	0.46	ND	ND	39	0.68	0.13J	ND	0.34J	ND	ND	1.6J	0.52J	2.3	ND	0.27J	ND	0.47J	ND	
2-METHYLPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-NITROANILINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-NITROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3,3'-DICHLOROBENZIDINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3-METHYLPHENOL/4-METHYLPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.77J	ND	
3-NITROANILINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,6-DINITRO-O-CRESOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-BROMOPHENYL PHENYL ETHER	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-CHLOROANILINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-CHLOROPHENYL PHENYL ETHER	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-NITROANILINE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-NITROPHENOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ACENAPHTHENE	20	100	ND	ND	2.7	ND	ND	41	0.59	0.15	ND	1.1	ND	ND	1.8	1.4	3.6	ND	0.34J	ND	0.36J	ND	
ACENAPHTHYLENE	100	100	ND	ND	0.13J	ND	ND	120	0.72	0.22	ND	0.5	ND	ND	3.5	0.87	0.47J	ND	0.22J	0.23J	0.46J	ND	
ACETOPHENONE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3J	ND	ND	ND	ND	ND	
ANTHRACENE	100	100	ND	ND	5.6	ND	ND	180	ND	0.48	0.034J	3.4	ND	ND	7.8	3.4	6.8	ND	0.91	0.39J	0.96	ND	
BENZO(A)ANTHRACENE	1	1	ND	ND	11	0.4J	ND	220	2.7	0.89	0.094J	5.2	0.13	ND	14	10	14	ND	2.2	1.2	3	ND	
BENZO(A)PYRENE	1	1	ND	ND	7	0.42J	ND	170	2	0.68	0.11J	4	0.16	ND	10	7.8	11	ND	2.1	1.4	2.6	ND	
BENZO(B)FLUORANTHENE	1	1	ND	ND	10	0.6J	ND	240	2.6	0.8	0.092J	5.9	0.15	ND	13	11	16	ND	2.6	1.6	3.9	ND	
BENZO(GH)PERYLENE	100	100	ND	ND	3.2	0.35J	ND	100	1.1	0.36	0.051J	2.6	0.083J	ND	5.8	4.5	5.7	ND	1.7	1.2	1.5	ND	
BENZO(K)FLUORANTHENE	0.8	3.9	ND	ND	3.6	ND	ND	93	0.93	0.37	0.039J	2	0.072J	ND	6.3	4	6.4	ND	1.2	0.67J	1.7	ND	
BENZOIC ACID	NS	NS	ND	ND	0.42J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BENZYL ALCOHOL	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BIPHENYL	NS	NS	ND	ND	0.18J	ND	ND	14J	0.12J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BIS(2-CHLOROETHOXY)METHANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BIS(2-CHLOROETHYL)ETHER	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BIS(2-CHLOROISOPROPYL)ETHER	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BIS(2-ETHYLHEXYL)PHTHALATE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08J	ND	ND	ND	14	ND	3.2	4	11	0.1J	
BUTYL BENZYL PHTHALATE	NS	NS	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CARBAZOLE	NS	NS	ND	ND	2.1	ND	ND	59	0.79	0.21	ND	1.2	ND	ND	1.8	1.5	3.4	ND	0.38J	ND	0.42J	ND	
CHRYSENE	1	3.9	ND	ND	10	0.45J	ND	190	2.6	0.84	0.084J	4.7	0.13	ND	14	10	14	ND	2.2	1.3	3.1	ND	
DIBENZO(A,H)ANTHRACENE	0.33	0.33	ND	ND	1	ND	ND	26	0.28	0.11	ND	0.64	ND	ND	1.9	1.2	1.5	ND	0.32J	0.24J	0.38J	ND	
DIBENZOFURAN	7	59	ND	ND	1.1	ND	ND	75	0.61	0.16J	ND	0.87	ND	ND	1.6J	0.77J	2	ND	ND	ND	ND	ND	
DIETHYL PHTHALATE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DIMETHYL PHTHALATE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DI-N-BUTYLPHTHALATE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49J	ND	ND	ND	ND	ND	
DI-N-OCTYLPHTHALATE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND</											

Table 16  
Soil Analytical Data - Metals  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB-7_0-2	SB-7_7-9	SB-22_0-2	SB-22_8-10	SB-14_0-2	SB-14_7-9	SB-12_1-3	SB-12_7-9	SB-9_1-3	SB-9_3-5	SB-13_1-3	SB-13_7-9	SB-18_1-3	SB-18_7-9	SB-8_0-2	SB-8_8-10	SB-28_1-3	SB-28_7-9	SB-25_1-3	SB-25_7-9	SB-25_7-9_FIELD-DUP	SB-27_1-3	
Laboratory ID			L1306694-01	L1306694-02	L1306810-02	L1306810-03	L1306810-04	L1306810-05	L1307016-01	L1307016-02	L1307016-03	L1307016-04	L1307016-05	L1307016-06	L1307016-07	L1307016-08	L1307016-09	L1307016-10	L1307016-11	L1307016-12	L1307016-13	L1307016-14	L1307016-15	L1307016-16	
Sample Date			4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013
Unit of Measure			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
GENERAL CHEMISTRY																									
CHROMIUM, HEXAVALENT	1	110	ND	ND	0.44J	0.3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47J	ND	ND	ND	0.23J	0.23J	ND	0.31J	
CYANIDE, TOTAL	27	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.3	
SOLIDS, TOTAL (UNITS IN %)	NS	NS	80.1	83	47.6	88	73.2	90.5	86.1	89.2	95.6	85.1	85	86.1	85	87.4	78.6	90.2	75.4	88.3	86.8	86.4	88.1	82.7	
TOTAL METALS																									
ALUMINUM, TOTAL	NS	NS	5100	9800	30000	10000	8800	9800	12000	7800	7800	9300	6700	7200	5600	2200	9400	8300	6000	8600	9400	6400	5000	4400	
ANTIMONY, TOTAL	NS	NS	30	2J	6.6J	2J	3.9J	1.3J	2.3J	1.5J	2.7J	1.7J	32	1J	2.9J	0.93J	1.4J	0.94J	2.1J	2.4J	1.1J	1.7J	0.97J	2.4J	
ARSENIC, TOTAL	13	16	7	2.9	7.2	3.5	14	3.5	3	2.9	3	5.3	16	3.3	6.5	3.7	4.9	2.4	5.9	6.1	3.9	1.6	1.4	11	
BARIUM, TOTAL	350	400	110	39	310	29	300	33	94	33	110	71	250	21	200	430	110	38	1200	93	120	57	45	930	
BERYLLIUM, TOTAL	7.2	72	0.32J	0.39J	1.3	0.33J	0.47J	0.33J	0.49	0.34J	0.38J	0.49	0.29J	0.3J	0.35J	0.12J	0.44J	0.35J	0.43J	0.43	0.68	0.45	0.32J	0.28J	
CADMIUM, TOTAL	2.5	4.3	1.8	ND	1.4J	ND	0.49J	ND	ND	ND	0.15J	ND	2.4	ND	1.8	0.2J	ND	ND	1.2	ND	0.22J	ND	ND	1.5	
CALCIUM, TOTAL	NS	NS	24000	1000	7000	920	30000	1200	11000	860	5300	3300	17000	820	35000	51000	6100	930	48000	30000	3500	2800	3000	44000	
CHROMIUM, TOTAL	NS	NS	38	18	47	12	20	13	16	11	17	24	2300	13	18	8.8	18	10	18	15	18	14	14	27	
COBALT, TOTAL	NS	NS	5.9	7.2	27	6	8.2	6.2	8.2	5.9	6.6	8.1	31	5.6	4.5	2.5	7.5	4.9	5.3	4.9	7.9	5	4.2	3.3	
COPPER, TOTAL	50	270	170	16	120	16	92	15	58	16	37	28	590	14	69	15	280	12	23	28	18	15	11	33	
IRON, TOTAL	NS	NS	24000	17000	56000	17000	24000	16000	18000	13000	20000	16000	59000	12000	10000	6600	16000	12000	12000	14000	7800	13000	10000	8600	
LEAD, TOTAL	63	400	740	7.6	220	7.5	900	13	230	7.3	120	180	1500	8	310	410	110	7.4	890	96	58	12	11	420	
MAGNESIUM, TOTAL	NS	NS	2300	2700	13000	3200	3000	3100	3800	2800	2600	2900	7800	2300	5000	2200	3400	2200	4200	6800	2500	2200	1800	3500	
MANGANESE, TOTAL	1600	2000	370	570	1200	250	460	170	340	270	310	340	640	330	350	280	520	310	460	450	1400	370	280	340	
MERCURY, TOTAL	0.18	0.81	1.6	ND	1.6	ND	2.3	0.03J	0.16	ND	6.6	0.36	1.4	ND	0.22	0.41	3.9	0.02J	0.95	0.63	2.7	0.75	0.15	0.43	
NICKEL, TOTAL	30	310	15	14	96	14	17	17	16	14	16	30	1100	13	24	11	18	11	11	17	20	12	20	14	
POTASSIUM, TOTAL	NS	NS	850	840	16000	570	1500	710	3400	600	2900	970	1000	730	850	460	3300	430	1400	1500	2100	1600	1000	1100	
SELENIUM, TOTAL	3.9	180	2.2	1.4J	1.6J	0.4J	1.8J	0.31J	0.61J	ND	0.38J	0.38J	0.72J	ND	0.66J	0.44J	0.83J	0.43J	0.68J	0.38J	1.1J	0.59J	ND	1J	
SILVER, TOTAL	2	180	0.94J	ND	0.49J	ND	0.99J	ND	ND	ND	0.16J	ND	1.7	ND	0.61J	0.18J	ND	ND	ND	ND	0.26J	ND	ND	0.49J	
SODIUM, TOTAL	NS	NS	640	250	290J	ND	460	ND	210	150J	220	500	710	350	860	550	470	68J	720	740	2400	430	350	1000	
THALLIUM, TOTAL	NS	NS	ND	ND	2J	ND	ND	ND	0.96J	ND	0.91J	ND	2.2	ND	ND	0.96J	ND	ND	ND	ND	ND	ND	ND	ND	
VANADIUM, TOTAL	NS	NS	19	23	61	17	29	18	23	15	19	19	45	14	25	6.6	23	13	32	20	17	20	15	20	
ZINC, TOTAL	109	10000	660	29	440	35	340	33	64	40	130	65	1400	29	1300	320	64	29	840	73	130	67	84	1200	

Notes:  
**Bold and *Italicized*** value indicates concentration exceeds Unrestricted SCOs  
**Bold and shaded value** indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
ND = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential



Table 16  
Soil Analytical Data - Metals  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID Laboratory ID Sample Date Unit of Measure	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB-27_7-9 L1307016-17 4/18/2013 mg/Kg	SB-10_1-3 L1307016-18 4/18/2013 mg/Kg	SB-10_8-10 L1307016-19 4/18/2013 mg/Kg	SB-15_0-2 L1307016-20 4/19/2013 mg/Kg	SB-15_8-10 L1307016-21 4/19/2013 mg/Kg	SB-16_1-3 L1307016-22 4/19/2013 mg/Kg	SB-16_7-9 L1307016-23 4/19/2013 mg/Kg	SB-16_7-9-FIELD-DUP L1307016-24 4/19/2013 mg/Kg	SB-24_1-3 L1307016-25 4/19/2013 mg/Kg	SB-24_8-10 L1307016-26 4/19/2013 mg/Kg	SB-23_0-2 L1307016-27 4/19/2013 mg/Kg	SB-23_7-9 L1307016-28 4/19/2013 mg/Kg	SB-17_1-3 L1307016-29 4/19/2013 mg/Kg	SB-17_7-9 L1307016-30 4/19/2013 mg/Kg	SB-11_1-3 L1307016-31 4/19/2013 mg/Kg	SB-11_7-9 L1307016-32 4/19/2013 mg/Kg	SB-7_0-2 L1307016-33 4/19/2013 mg/Kg	SB-7_7-9 L1307016-34 4/19/2013 mg/Kg	SB-26_0-2 L1307016-37 4/18/2013 mg/Kg	SB-26_7-9 L1307016-38 4/18/2013 mg/Kg
GENERAL CHEMISTRY																						
CHROMIUM, HEXAVALENT	1	110	ND	ND	ND	ND	ND	0.42J	ND	ND	ND	ND	ND	0.23J	ND	ND	ND	ND	0.25J	ND	ND	ND
CYANIDE, TOTAL	27	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SOLIDS, TOTAL (UNITS IN %)	NS	NS	89.6	88.6	87.8	92.7	85.4	76	87.6	92.4	85.2	82.5	81.9	85.4	93.1	81.6	84.2	91.3	79	83.5	85	87.5
TOTAL METALS																						
ALUMINIUM, TOTAL	NS	NS	7200	7300	9600	5100	8200	4900	5000	8500	3300	3000	5900	5400	3700	3800	8700	7700	6300	6000	10000	9600
ANTIMONY, TOTAL	NS	NS	1.3J	14	1.6J	74	1.6J	100	0.95J	1.2J	ND	6.9	1.3J	0.96J	2.8J	5	25	1J	18	18	17	1.6J
ARSENIC, TOTAL	13	16	3.9	6.5	4.2	17	2.1	18	1.4	2.3	4.4	13	2.9	2	6	9	28	1.8	10	9.1	9.6	4.1
BARIUM, TOTAL	350	400	62	270	42	940	43	910	26	35	520	850	71	59	970	1200	330	40	630	530	430	64
BERYLLIUM, TOTAL	7.2	72	0.45	0.25J	0.36J	3.8	0.42J	0.23J	0.21J	0.34J	0.14J	0.21J	0.41J	0.36J	0.16J	0.25J	0.35J	0.37J	0.49	0.43J	0.27J	0.33J
CADMIUM, TOTAL	2.5	4.3	0.06J	7.5	ND	30	0.07J	23	ND	ND	1.3	5.1	0.23J	ND	1.6	2.5	13	ND	9.4	9.2	9.3	ND
CALCIUM, TOTAL	NS	NS	15000	66000	1200	62000	1200	17000	7400	2200	89000	81000	15000	2500	39000	27000	41000	1000	35000	34000	59000	20000
CHROMIUM, TOTAL	NS	NS	12	67	12	100	18	150	7.5	11	7.8	48	14	13	22	23	380	17	72	78	79	13
COBALT, TOTAL	NS	NS	4.5	20	5.7	21	6.5	16	3.5	5.4	2.6	5.3	4.2	5	11	4.9	14	5.3	8.6	9.1	10	6.2
COPPER, TOTAL	50	270	15	420	18	1300	16	1000	10	14	15	77	20	14	58	81	1700	20	560	550	540	20
IRON, TOTAL	NS	NS	11000	30000	16000	120000	14000	81000	9000	14000	6400	7600	11000	11000	8600	32000	75000	12000	40000	41000	66000	14000
LEAD, TOTAL	63	400	30	1100	14	4500	8.6	2200	15	14	1200	2600	65	37	960	1200	3000	16	1100	1000	2200	91
MAGNESIUM, TOTAL	NS	NS	4000	4900	2800	4500	3000	2500	2100	2800	2500	3200	2500	2000	11000	1700	6900	2500	7100	6300	4600	8100
MANGANESE, TOTAL	1600	2000	380	340	450	1100	200	680	270	290	200	250	300	260	230	300	600	430	430	440	610	480
MERCURY, TOTAL	0.18	0.81	1.6	12	0.05J	0.57	ND	1.8	0.04J	0.11	0.45	0.37	6.1	ND	0.29	1.5	8.1	ND	5.8	4.1	4.8	0.38
NICKEL, TOTAL	30	310	11	41	14	120	17	140	8.8	12	7.3	12	25	14	15	19	120	13	52	50	48	14
POTASSIUM, TOTAL	NS	NS	1200	1300	670	540	760	460	460	540	840	690	1100	1100	540	610	1600	980	780	700	1200	1900
SELENIUM, TOTAL	3.9	180	0.56J	1.5J	0.85J	2.1J	0.42J	1.8J	ND	0.66J	0.44J	0.66J	0.88J	0.6J	0.47J	1.4J	2.1	0.66J	1.8J	1.8J	2	0.98J
SILVER, TOTAL	2	180	ND	7.3	ND	4.1	ND	5.2	ND	ND	0.26J	1.1	ND	ND	0.6J	1.4	8.4	ND	7.1	9.2	4.4	0.46J
SODIUM, TOTAL	NS	NS	420	1300	380	3800	220	2300	280	370	740	1600	220	180	550	740	3400	440	1000	880	1500	530
THALLIUM, TOTAL	NS	NS	0.63J	1.3J	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	0.63J	ND	ND	ND	ND	ND	ND
VANADIUM, TOTAL	NS	NS	16	28	16	29	19	48	10	13	8.4	13	17	16	17	20	88	18	36	33	31	17
ZINC, TOTAL	109	10000	37	2000	43	11000	38	7600	30	33	1400	5300	58	50	840	1200	8300	53	1600	1300	2300	48

Notes:  
**Bold and *Italicized*** value indicates concentration exceeds Unrestricted SCOs  
**Bold and shaded value** indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
ND = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 17  
Soil Analytical Data - Polychlorinated Biphenyls  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID			SB-7_0-2	SB-7_7-9	SB-22_0-2	SB-22_8-10	SB-14_0-2	SB-14_7-9	SB-12_1-3	SB-12_7-9	SB-9_1-3	SB-9_3-5	SB-13_1-3	SB-13_7-9	SB-18_1-3	SB-18_7-9	SB-8_0-2	SB-8_8-10	SB-28_1-3	SB-28_7-9	SB-25_1-3	SB-25_7-9	SB-25_7-9_FIELD-DUP
Laboratory ID		Part 375 Unrestricted Use SCOs*	L1306694-01	L1306694-02	L1306810-02	L1306810-03	L1306810-04	L1306810-05	L1307016-01	L1307016-02	L1307016-03	L1307016-04	L1307016-05	L1307016-06	L1307016-07	L1307016-08	L1307016-09	L1307016-10	L1307016-11	L1307016-12	L1307016-13	L1307016-14	L1307016-15
Sample Date		Part 375 Restricted Residential SCOs**	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013
Unit of Measure			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
POLYCHLORINATED BIPHENYLS																							
AROCLOR 1016	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR 1221	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR 1232	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR 1242	0.1	1	3.8	ND	ND	ND	ND	ND	ND	ND	0.246	ND	0.49	ND	ND	ND	ND	ND	ND	ND	0.0216J	ND	ND
AROCLOR 1248	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR 1254	0.1	1	ND	ND	ND	ND	0.153	ND	ND	ND	0.101	ND	1.1	ND	ND	ND	ND	ND	1.59	ND	ND	ND	ND
AROCLOR 1260	0.1	1	0.435	ND	ND	ND	0.0932	ND	ND	ND	0.0398	ND	0.199	ND	ND	ND	ND	ND	0.546	ND	ND	ND	ND

Notes:  
**Bold and *Italicized*** value indicates concentration exceeds Unrestricted SCOs  
**Bold and shaded value** indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
ND = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 17  
Soil Analytical Data - Polychlorinated Biphenyls  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB-27_1-3	SB-27_7-9	SB-10_1-3	SB-10_8-10	SB-15_0-2	SB-15_8-10	SB-16_1-3	SB-16_7-9	SB-16_7-9-FIELD-DUP	SB-24_1-3	SB-24_8-10	SB-23_0-2	SB-23_7-9	SB-17_1-3	SB-17_7-9	SB-11_1-3	SB-11_7-9	SB-7_0-2	SB-7_7-9	SB-26_0-2	SB-26_7-9
Laboratory ID			L1307016-16	L1307016-17	L1307016-18	L1307016-19	L1307016-20	L1307016-21	L1307016-22	L1307016-23	L1307016-24	L1307016-25	L1307016-26	L1307016-27	L1307016-28	L1307016-29	L1307016-30	L1307016-31	L1307016-32	L1307016-33	L1307016-34	L1307016-37	L1307016-38
Sample Date			4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/18/2013	4/18/2013
Unit of Measure			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
POLYCHLORINATED BIPHENYLS																							
AROCLOR 1016	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR 1221	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR 1232	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR 1242	0.1	1	ND	ND	12.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.42	ND	0.0982	ND	3.84	ND
AROCLOR 1248	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROCLOR 1254	0.1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.109	0.109	ND	0.0155J	ND	1.13	ND	0.279	0.186	1.59	ND
AROCLOR 1260	0.1	1	ND	ND	ND	ND	0.655	ND	ND	ND	ND	ND	0.0866	0.0372J	ND	0.0223J	ND	0.419	ND	0.209	0.127	1.65	ND

Notes:  
**Bold and *Italicized*** value indicates concentration exceeds Unrestricted SCOs  
**Bold and shaded value** indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
ND = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 18  
Soil Analytical Data - Pesticides  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID	Part 375	Part 375	SB-7_0-2	SB-7_7-9	SB-22_0-2	SB-22_8-10	SB-14_0-2	SB-14_7-9	SB-12_1-3	SB-12_7-9	SB-9_1-3	SB-9_3-5	SB-13_1-3	SB-13_7-9	SB-18_1-3	SB-18_7-9	SB-8_0-2	SB-8_8-10	SB-28_1-3	SB-28_7-9	SB-25_1-3	SB-25_7-9	SB-25_7-9_FIELD-DUP	SB-27_1-3	SB-27_7-9	SB-10_1-3	
Laboratory ID	Unrestricted Use	Restricted	L1306694-01	L1306694-02	L1306810-02	L1306810-03	L1306810-04	L1306810-05	L1307016-01	L1307016-02	L1307016-03	L1307016-04	L1307016-05	L1307016-06	L1307016-07	L1307016-08	L1307016-09	L1307016-10	L1307016-11	L1307016-12	L1307016-13	L1307016-14	L1307016-15	L1307016-16	L1307016-17	L1307016-18	
Sample Date			4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	
Unit of Measure			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
PESTICIDES																											
4,4'-DDD	0.0033	13	0.0171 J	ND	ND	ND	0.00593	ND	ND	ND	0.00821	ND	0.0224	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDE	0.0033	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDT	0.0033	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ALDRIN	0.005	0.097	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ALPHA-BHC	0.02	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BETA-BHC	0.036	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CHLORDANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CIS-CHLORDANE	0.094	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DELTA-BHC	0.04	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DIELDRIN	0.005	0.2	0.0174 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0179	ND	ND	ND	ND	ND	
ENDOSULFAN I	2.4	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ENDOSULFAN II	2.4	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ENDOSULFAN SULFATE	2.4	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ENDRIN	0.014	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ENDRIN KETONE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
HEPTACHLOR	0.042	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
HEPTACHLOR EPOXIDE	NS	NS	ND	ND	ND	0.00104J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LINDANE	0.1	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
METHOXYCHLOR	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TOXAPHENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TRANS-CHLORDANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:  
**Bold and *Italicized*** value indicates concentration exceeds Unrestricted SCOs  
Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
P = The RPD between the results for the two columns exceeds the method-specified criteria  
ND = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 18  
Soil Analytical Data - Pesticides  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID Laboratory ID Sample Date Unit of Measure	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB-10_8-10 L1307016-19 4/18/2013 mg/Kg	SB-15_0-2 L1307016-20 4/19/2013 mg/Kg	SB-15_8-10 L1307016-21 4/19/2013 mg/Kg	SB-16_1-3 L1307016-22 4/19/2013 mg/Kg	SB-16_7-9 L1307016-23 4/19/2013 mg/Kg	SB-16_7-9-FIELD-DUP L1307016-24 4/19/2013 mg/Kg	SB-24_1-3 L1307016-25 4/19/2013 mg/Kg	SB-24_8-10 L1307016-26 4/19/2013 mg/Kg	SB-23_0-2 L1307016-27 4/19/2013 mg/Kg	SB-23_7-9 L1307016-28 4/19/2013 mg/Kg	SB-17_1-3 L1307016-29 4/19/2013 mg/Kg	SB-17_7-9 L1307016-30 4/19/2013 mg/Kg	SB-11_1-3 L1307016-31 4/19/2013 mg/Kg	SB-11_7-9 L1307016-32 4/19/2013 mg/Kg	SB-7_0-2 L1307016-33 4/19/2013 mg/Kg	SB-7_7-9 L1307016-34 4/19/2013 mg/Kg	SB-26_0-2 L1307016-37 4/18/2013 mg/Kg	SB-26_7-9 L1307016-38 4/18/2013 mg/Kg
PESTICIDES																				
4,4'-DDD	0.0033	13	ND	ND	ND	ND	ND	ND	ND	<b>0.00338</b>	ND	ND	ND	ND	ND	ND	ND	ND	<b>0.0137J</b>	ND
4,4'-DDE	0.0033	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ALDRIN	0.005	0.097	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ALPHA-BHC	0.02	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BETA-BHC	0.036	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLORDANE	NS	NS	ND	ND	0.0164	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CIS-CHLORDANE	0.094	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DELTA-BHC	0.04	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIELDRIN	0.005	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>0.014P</b>	<b>0.00926P</b>	<b>0.0314</b>	ND
ENDOSULFAN I	2.4	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ENDOSULFAN II	2.4	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ENDOSULFAN SULFATE	2.4	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ENDRIN	0.014	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ENDRIN KETONE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEPTACHLOR	0.042	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEPTACHLOR EPOXIDE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LINDANE	0.1	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0646P	ND
METHOXYCHLOR	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXAPHENE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRANS-CHLORDANE	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:  
**Bold and *Italicized*** value indicates concentration exceeds Unrestricted SCOs  
**Bold and shaded value** indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
P = The RPD between the results for the two columns exceeds the method-specified criteria  
ND = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 19  
Concrete Analytical Data - Polychlorinated Biphenyls  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID Laboratory ID Sample Date Unit of Measure	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB-12_CON_TOP 4/17/2013 L1307006-01 mg/Kg	SB-28_CON_TOP 4/18/2013 L1307006-02 mg/Kg	SB-24_CON_TOP 4/19/2013 L1307006-05 mg/Kg	SB-10_CON_BOT 4/18/2013 L1307006-03 mg/Kg	SB-17_CON_BOT 4/19/2013 L1307006-04 mg/Kg	SB-11_CON_BOT 4/19/2013 L1307006-06 mg/Kg
<b>POLYCHLORINATED BIPHENYLS</b>								
Aroclor 1016	0.1	1	ND	ND	ND	ND	ND	ND
Aroclor 1221	0.1	1	ND	ND	ND	ND	ND	ND
Aroclor 1232	0.1	1	ND	ND	ND	ND	ND	ND
Aroclor 1242	0.1	1	ND	ND	ND	ND	0.0598P	ND
Aroclor 1248	0.1	1	ND	ND	ND	ND	ND	ND
Aroclor 1254	0.1	1	ND	ND	ND	ND	<b>0.123</b>	0.0633
Aroclor 1260	0.1	1	ND	ND	ND	ND	0.0889	0.0265J
Aroclor 1262	0.1	1	ND	ND	ND	ND	ND	ND
Aroclor 1268	0.1	1	ND	ND	ND	ND	ND	ND

Notes:

**Bold and *Italicized*** value indicates concentration exceeds Unrestricted SCOs

**Bold and shaded value** indicates concentration exceeds Restricted-Residential SCOs

P = The RPD between the results for the two columns exceeds the method-specified criteria

J = Estimated value

ND = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 20  
Groundwater Analytical Data - VOCs  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID Laboratory ID Sample Date Unit of Measure	NYSDEC TOGS AWQS*	MW-2_042313 L1307222-01 4/23/2013 µg/L	MW-3_042313 L1307222-02 4/23/2013 µg/L	MW-4_042313 L1307222-03 4/23/2013 µg/L	MW-5_042313 L1307222-04 4/23/2013 µg/L	MW-5_042313_DUP L1307222-05 4/23/2013 µg/L	FIELD BLANK L1307222-06 4/23/2013 µg/L	TRIP BLANK L1307222-07 4/23/2013 µg/L
<b>VOLATILE ORGANIC COMPOUNDS</b>								
1,1,1,2-TETRACHLOROETHANE	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	5	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	1	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	5	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHENE	5	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROPROPENE	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-TRICHLOROPROPANE	0.04	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-TETRAMETHYLBENZENE	NS	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.04	ND	ND	ND	ND	ND	ND	ND
1,2-DIBROMOETHANE	0.0006	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	3	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	0.6	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	1	ND	ND	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	3	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROPROPANE	5	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	3	ND	ND	ND	ND	ND	ND	ND
1,4-DIETHYLBENZENE	NS	ND	ND	ND	ND	ND	ND	ND
1,4-DIOXANE	NS	ND	ND	ND	ND	ND	ND	ND
2,2-DICHLOROPROPANE	5	ND	ND	ND	ND	ND	ND	ND
2-BUTANONE	50	ND	ND	ND	ND	ND	ND	ND
2-HEXANONE	50	ND	ND	ND	ND	ND	ND	ND
4-ETHYLTOLUENE	NS	ND	ND	ND	ND	ND	ND	ND
4-METHYL-2-PENTANONE	NS	ND	ND	ND	ND	ND	ND	ND
ACETONE	50	1.2J	1.1J	1.4J	2.2J	2.9J	2.2J	1.7J
ACRYLONITRILE	5	ND	ND	ND	ND	ND	ND	ND
BENZENE	1	ND	ND	ND	ND	ND	ND	ND
BROMOBENZENE	5	ND	ND	ND	ND	ND	ND	ND
BROMOCHLOROMETHANE	5	ND	ND	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	50	ND	ND	ND	ND	ND	ND	ND
BROMOFORM	50	ND	ND	ND	ND	ND	ND	ND
BROMOMETHANE	5	ND	ND	ND	ND	ND	ND	ND
CARBON DISULFIDE	60	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	5	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	5	ND	ND	ND	ND	ND	ND	ND
CHLOROETHANE	5	ND	ND	ND	ND	ND	ND	ND
CHLOROFORM	7	ND	ND	ND	ND	ND	ND	ND
CHLOROMETHANE	NS	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHENE	5	ND	ND	ND	6.6	7	ND	ND
CIS-1,3-DICHLOROPROPENE	0.4	ND	ND	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	50	ND	ND	ND	ND	ND	ND	ND
DIBROMOMETHANE	5	ND	ND	ND	ND	ND	ND	ND
DICHLORODIFLUOROMETHANE	5	ND	ND	ND	ND	ND	ND	ND
ETHYL ETHER	NS	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND	ND	ND	ND	ND	ND
ISOPROPYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND
METHYL TERT BUTYL ETHER	10	ND	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	5	ND	ND	ND	ND	ND	ND	ND
NAPHTHALENE	10	ND	ND	ND	ND	ND	ND	ND
N-BUTYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND
N-PROPYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND
O-CHLOROTOLUENE	5	ND	ND	ND	ND	ND	ND	ND
O-XYLENE	5	ND	ND	ND	ND	ND	ND	ND
P/M-XYLENE	5	ND	ND	ND	ND	ND	ND	ND
P-CHLOROTOLUENE	5	ND	ND	ND	ND	ND	ND	ND
P-ISOPROPYLTOLUENE	5	ND	ND	ND	ND	ND	ND	ND
SEC-BUTYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND
STYRENE	5	ND	ND	ND	ND	ND	ND	ND
TERT-BUTYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE	5	0.43J	0.52	0.53	0.22J	0.3J	ND	ND
TOLUENE	5	ND	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	5	ND	ND	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.4	ND	ND	ND	ND	ND	ND	ND
TRANS-1,4-DICHLORO-2-BUTENE	5	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	0.38J	0.46J	0.4J	0.28J	0.28J	ND	ND
TRICHLOROFLUOROMETHANE	5	ND	ND	ND	ND	ND	ND	ND
VINYL ACETATE	NS	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	2	ND	ND	ND	ND	ND	ND	ND

Notes:

**Bold** and Shaded value indicates concentration exceeds TOGS AWQS

J = Estimated value

ND = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 21  
Groundwater Analytical Data - SVOCs  
Remedial Investigation Report  
214-520 West 28th Street  
New York, NY

Sample ID Laboratory ID Sample Date Unit of Measure	NYSDEC TOGS AWQS*	MW-2_042313 L1307222-01 4/23/2013 µg/L	MW-3_042313 L1307222-02 4/23/2013 µg/L	MW-4_042313 L1307222-03 4/23/2013 µg/L	MW-5_042313 L1307222-04 4/23/2013 µg/L	MW-5_042313_DUP L1307222-05 4/23/2013 µg/L	FIELD BLANK L1307222-06 4/23/2013 µg/L
<b>SEMIVOLATILE ORGANICS</b>							
1,2,4,5-TETRACHLOROBENZENE	5	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	5	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	3	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	3	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	3	ND	ND	ND	ND	ND	ND
2,4,5-TRICHLOROPHENOL	NS	ND	ND	ND	ND	ND	ND
2,4,6-TRICHLOROPHENOL	NS	ND	ND	ND	ND	ND	ND
2,4-DICHLOROPHENOL	1	ND	ND	ND	ND	ND	ND
2,4-DIMETHYLPHENOL	50	ND	ND	ND	ND	ND	ND
2,4-DINITROPHENOL	10	ND	ND	ND	ND	ND	ND
2,4-DINITROTOLUENE	5	ND	ND	ND	ND	ND	ND
2,6-DINITROTOLUENE	5	ND	ND	ND	ND	ND	ND
2-CHLORONAPHTHALENE	10	ND	ND	ND	ND	ND	ND
2-CHLOROPHENOL	NS	ND	ND	ND	ND	ND	ND
2-METHYLNAPHTHALENE	NS	ND	ND	ND	ND	ND	ND
2-METHYLPHENOL	NS	ND	ND	ND	ND	ND	ND
2-NITROANILINE	5	ND	ND	ND	ND	ND	ND
2-NITROPHENOL	NS	ND	ND	ND	ND	ND	ND
3,3'-DICHLOROBENZIDINE	5	ND	ND	ND	ND	ND	ND
3-METHYLPHENOL/4-METHYLPHENOL	NS	ND	ND	ND	ND	ND	ND
3-NITROANILINE	5	ND	ND	ND	ND	ND	ND
4,6-DINITRO-O-CRESOL	NS	ND	ND	ND	ND	ND	ND
4-BROMOPHENYL PHENYL ETHER	NS	ND	ND	ND	ND	ND	ND
4-CHLOROANILINE	5	ND	ND	ND	ND	ND	ND
4-CHLOROPHENYL PHENYL ETHER	NS	ND	ND	ND	ND	ND	ND
4-NITROANILINE	5	ND	ND	ND	ND	ND	ND
4-NITROPHENOL	NS	ND	ND	ND	ND	ND	ND
ACENAPHTHENE	20	ND	ND	ND	ND	ND	ND
ACENAPHTHYLENE	NS	ND	ND	ND	ND	ND	ND
ACETOPHENONE	NS	ND	ND	ND	ND	ND	ND
ANTHRACENE	50	ND	ND	ND	ND	ND	ND
BENZO(A)ANTHRACENE	NS	ND	ND	ND	ND	ND	ND
BENZO(A)PYRENE	0	ND	ND	ND	ND	ND	ND
BENZO(B)FLUORANTHENE	0.002	ND	ND	ND	ND	ND	ND
BENZO(GH)PERYLENE	NS	ND	ND	ND	ND	ND	ND
BENZO(K)FLUORANTHENE	0.002	ND	ND	ND	ND	ND	ND
BENZOIC ACID	NS	ND	ND	ND	ND	ND	ND
BENZYL ALCOHOL	NS	ND	ND	ND	ND	ND	ND
BIPHENYL	NS	ND	ND	ND	ND	ND	ND
BIS(2-CHLOROETHOXY)METHANE	5	ND	ND	ND	ND	ND	ND
BIS(2-CHLOROETHYL)ETHER	1	ND	ND	ND	ND	ND	ND
BIS(2-CHLOROISOPROPYL)ETHER	5	ND	ND	ND	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHALATE	5	ND	ND	ND	ND	ND	ND
BUTYL BENZYL PHTHALATE	50	ND	ND	ND	ND	ND	ND
CARBAZOLE	NS	ND	ND	ND	ND	ND	ND
CHRYSENE	0.002	ND	ND	ND	ND	ND	ND
DIBENZO(A,H)ANTHRACENE	NS	ND	ND	ND	ND	ND	ND
DIBENZOFURAN	NS	ND	ND	ND	ND	ND	ND
DIETHYL PHTHALATE	50	ND	ND	ND	ND	ND	ND
DIMETHYL PHTHALATE	50	ND	ND	ND	ND	ND	ND
DI-N-BUTYLPHTHALATE	50	ND	ND	ND	ND	ND	ND
DI-N-OCTYLPHTHALATE	50	ND	ND	ND	ND	ND	ND
FLUORANTHENE	50	ND	ND	ND	ND	ND	ND
FLUORENE	50	ND	ND	ND	ND	ND	ND
HEXACHLOROBENZENE	0.04	ND	ND	ND	ND	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND	ND	ND	ND	ND
HEXACHLOROCYCLOPENTADIENE	5	ND	ND	ND	ND	ND	ND
HEXACHLOROETHANE	5	ND	ND	ND	ND	ND	ND
INDENO(1,2,3-CD)PYRENE	0.002	ND	ND	ND	ND	ND	ND
ISOPHORONE	50	ND	ND	ND	ND	ND	ND
NAPHTHALENE	10	ND	ND	ND	ND	ND	ND
NITROBENZENE	0.4	ND	ND	ND	ND	ND	ND
NITROSODIPHENYLAMINE(NDPA)/DPA	50	ND	ND	ND	ND	ND	ND
N-NITROSODI-N-PROPYLAMINE	NS	ND	ND	ND	ND	ND	ND
P-CHLORO-M-CRESOL	NS	ND	ND	ND	ND	ND	ND
PENTACHLOROPHENOL	1	ND	ND	ND	ND	ND	ND
PHENANTHRENE	50	ND	ND	ND	ND	ND	ND
PHENOL	1	ND	ND	ND	ND	ND	ND
PYRENE	50	ND	ND	ND	ND	ND	ND

Notes:

**Bold** and Shaded value indicates concentration exceeds TOGS AWQS

J = Estimated value

ND = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)



Table 22  
Groundwater Analytical Data - Metals  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID Laboratory ID Sample Date Unit of Measure	NYSDEC TOGS AWQS*	MW-2_042313 L1307222-01 4/23/2013 µg/L	MW-3_042313 L1307222-02 4/23/2013 µg/L	MW-4_042313 L1307222-03 4/23/2013 µg/L	MW-5_042313 L1307222-04 4/23/2013 µg/L	MW-5_042313_DUP L1307222-05 4/23/2013 µg/L	FIELD BLANK L1307222-06 4/23/2013 µg/L
<b>TOTAL METALS</b>							
ALUMINUM, TOTAL	NS	13800	2910	532	19900	11300	2.12J
ANTIMONY, TOTAL	3	0.64	1.06J	<b>3.03J</b>	0.71	0.58	0.24J
ARSENIC, TOTAL	25	6.08	2.19J	ND	10.39	8.14	ND
BARIUM, TOTAL	1000	304.4	166.7	63.45	247.8	186.6	ND
BERYLLIUM, TOTAL	3	0.88	ND	ND	1.15	0.73	ND
CADMIUM, TOTAL	5	0.17J	ND	ND	0.2J	0.13J	ND
CALCIUM, TOTAL	NS	138000	625000	636000	205000	220000	68.2J
CHROMIUM, TOTAL	50	<b>74.5</b>	30.95	15.99	<b>114.4</b>	<b>69.67</b>	0.21J
COBALT, TOTAL	NS	11.85	11.99	7.03	16.7	10.54	ND
COPPER, TOTAL	200	48.6	23.04	10.76	44.09	30.64	ND
IRON, TOTAL	300	<b>18800</b>	<b>6080</b>	<b>1290</b>	<b>28900</b>	<b>17300</b>	ND
LEAD, TOTAL	25	<b>34.86</b>	14.58	3.51J	<b>51.21</b>	<b>36.02</b>	ND
MAGNESIUM, TOTAL	35000	<b>107000</b>	<b>60900</b>	<b>61700</b>	<b>54300</b>	<b>58700</b>	ND
MANGANESE, TOTAL	300	<b>1460</b>	163.6	38.78	<b>3509</b>	<b>3124</b>	0.1J
MERCURY, TOTAL	0.7	0.09J	ND	ND	0.07J	ND	ND
NICKEL, TOTAL	100	71.95	29.5	15.97	<b>141.3</b>	94.1	ND
POTASSIUM, TOTAL	NS	40400	91000	93700	46400	46700	ND
SELENIUM, TOTAL	10	6.76	<b>45.5J</b>	<b>44.8J</b>	3J	2.07J	ND
SILVER, TOTAL	50	ND	ND	ND	0.71	0.7	ND
SODIUM, TOTAL	20000	<b>137000</b>	<b>550000</b>	<b>556000</b>	<b>184000</b>	<b>199000</b>	ND
THALLIUM, TOTAL	0.5	0.04J	ND	ND	0.08J	ND	ND
VANADIUM, TOTAL	NS	25.34	7.56J	1.8J	40.09	24.61	ND
ZINC, TOTAL	2000	47.49	40.48J	23.39J	58.36	36.44	1.42J
<b>DISSOLVED METALS</b>							
ALUMINUM, DISSOLVED	NS	534	109	113	717	540	ND
ANTIMONY, DISSOLVED	3	0.66	1.19J	2.14J	0.63	0.53	ND
ARSENIC, DISSOLVED	25	1.83	ND	ND	2.14	1.97	ND
BARIUM, DISSOLVED	1000	133.1	48.59	46.06	89.19	81.39	0.2J
BERYLLIUM, DISSOLVED	3	ND	ND	ND	ND	ND	ND
CADMIUM, DISSOLVED	5	ND	ND	ND	ND	ND	ND
CALCIUM, DISSOLVED	NS	124000	618000	580000	205000	196000	41.5J
CHROMIUM, DISSOLVED	50	5.17	5.2J	2.9J	10.67	7.19	ND
COBALT, DISSOLVED	NS	0.67	7.97	6.19	1.96	1.51	ND
COPPER, DISSOLVED	200	4.43	9.49J	7.24J	4.26	4.1	ND
IRON, DISSOLVED	300	<b>1060</b>	294J	<b>316J</b>	<b>1390</b>	<b>1060</b>	ND
LEAD, DISSOLVED	25	2.43	ND	ND	3.61	2.49	ND
MAGNESIUM, DISSOLVED	35000	<b>99400</b>	<b>67600</b>	<b>65000</b>	<b>53600</b>	<b>52100</b>	ND
MANGANESE, DISSOLVED	300	93.78	56.69	26.11	<b>2193</b>	<b>1788</b>	0.3J
MERCURY, DISSOLVED	0.7	ND	ND	0.14J	ND	ND	ND
NICKEL, DISSOLVED	100	7.76	23.23	11.31	23.42	19.25	0.1J
POTASSIUM, DISSOLVED	NS	37000	94200	94800	43300	44300	ND
SELENIUM, DISSOLVED	10	6.67	<b>47J</b>	<b>48.2J</b>	1.34J	1.33J	ND
SILVER, DISSOLVED	50	0.59J	ND	ND	0.52	0.42J	ND
SODIUM, DISSOLVED	20000	<b>133000</b>	<b>697000</b>	<b>592000</b>	<b>185000</b>	<b>182000</b>	294
THALLIUM, DISSOLVED	0.5	0.03J	<b>3.18J</b>	ND	0.07J	0.05J	ND
VANADIUM, DISSOLVED	NS	5.66	ND	ND	7.27	3.26J	ND
ZINC, DISSOLVED	2000	5.08J	ND	20.44J	5.62J	4.02J	22.83

Notes:

**Bold** and Shaded value indicates concentration exceeds TOGS AWQS

J = Estimated value

ND = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 23  
Groundwater Analytical Data - PCBs  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID Laboratory ID Sample Date Unit of Measure	<b>NYSDEC TOGS AWQS*</b>	MW-5_042313 L1307222-04 4/23/2013 µg/L	MW-5_042313_DUP L1307222-05 4/23/2013 µg/L	FIELD BLANK L1307222-06 4/23/2013 µg/L
<b>POLYCHLORINATED BIPHENYLS</b>				
AROCLOR 1016	<b>0.09</b>	ND	ND	ND
AROCLOR 1221	<b>0.09</b>	ND	ND	ND
AROCLOR 1232	<b>0.09</b>	ND	ND	ND
AROCLOR 1242	<b>0.09</b>	ND	ND	ND
AROCLOR 1248	<b>0.09</b>	ND	ND	ND
AROCLOR 1254	<b>0.09</b>	ND	ND	ND
AROCLOR 1260	<b>0.09</b>	ND	ND	ND

Notes:

**Bold** and Shaded value indicates concentration exceeds TOGS AWQS

J = Estimated value

ND = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 24  
Groundwater Analytical Data - Pesticides  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID Laboratory ID Sample Date Unit of Measure	NYSDEC TOGS AWQS*	MW-5_042313 L1307222-04 4/23/2013 µg/L	MW-5_042313_DUP L1307222-05 4/23/2013 µg/L	FIELD BLANK L1307222-06 4/23/2013 µg/L
<b>PESTICIDES</b>				
4,4'-DDD	0.3	ND	ND	ND
4,4'-DDE	0.2	ND	ND	ND
4,4'-DDT	0.2	ND	ND	ND
ALDRIN	0	ND	ND	ND
ALPHA-BHC	0.01	ND	ND	ND
BETA-BHC	0.04	ND	ND	ND
CHLORDANE	0.05	ND	ND	ND
CIS-CHLORDANE	NS	ND	ND	ND
DELTA-BHC	0.04	ND	ND	ND
DIELDRIN	0.004	ND	ND	ND
ENDOSULFAN I	NS	ND	ND	ND
ENDOSULFAN II	NS	ND	ND	ND
ENDOSULFAN SULFATE	NS	ND	ND	ND
ENDRIN	0	ND	ND	ND
ENDRIN KETONE	5	ND	ND	ND
HEPTACHLOR	0.04	ND	ND	ND
HEPTACHLOR EPOXIDE	0.03	ND	ND	ND
LINDANE	0.05	ND	ND	ND
METHOXYCHLOR	35	ND	ND	ND
TOXAPHENE	0.06	ND	ND	ND
TRANS-CHLORDANE	NS	ND	ND	ND

Notes:

**Bold** and Shaded value indicates concentration exceeds TOGS AWQS

J = Estimated value

ND = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 25  
Soil Vapor Analytical Data - VOCs  
Remedial Investigation Report  
514-520 West 28th Street  
New York, NY

Sample ID	SV-6	SV-7	SV-8	SV-8 DUPLICATE	SV-9	SV-10	SV-11	SV-12	AMBIENT AIR
Laboratory ID	L1307128-03	L1307128-02	L1307128-05	L1307128-06	L1307128-04	L1307128-07	L1307128-08	L1307128-09	L1307128-01
Sample Date	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013
Unit of Measure	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
<b>VOLATILE ORGANIC COMPOUNDS</b>									
1,1,1-TRICHLOROETHANE*	20.4	ND	6	5.78	17	ND	14.1	19.2	ND
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	ND	ND	ND	ND	2.45	ND	ND	5.46	ND
1,1-DICHLOROETHENE*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	11.8	10.6	22.5	25.2	9.64	ND	13.1	12.6	ND
1,2-DIBROMOETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	3.04	ND	7.08	6.88	ND	ND	3.09	3.4	ND
1,3-BUTADIENE	ND	ND	ND	ND	ND	ND	ND	3.78	ND
1,3-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DIOXANE	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2,4-TRIMETHYLPENTANE	ND	ND	ND	ND	ND	ND	ND	14.7	ND
2-BUTANONE	4.69	5.28	46.3	46.9	4.9	ND	2.39	11.3	0.858
2-HEXANONE	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-CHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-ETHYLTOLUENE	2.69	ND	6.78	6.59	ND	ND	2.74	3.51	ND
4-METHYL-2-PENTANONE	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACETONE	13.7	26.8	100	99.3	11.1	ND	ND	47.3	10
BENZENE	11	ND	12.9	13.9	10.4	11	4.98	19.5	0.757
BENZYL CHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	ND	13.9	4.1	4.19	ND	ND	ND	ND	ND
BROMOFORM	ND	ND	ND	ND	ND	ND	ND	ND	ND
BROMOMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND
CARBON DISULFIDE	13.1	ND	10.3	9.59	4.89	ND	ND	90.9	ND
CARBON TETRACHLORIDE*	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROFORM	7.33	168	87.4	83.5	7.33	ND	ND	3.77	ND
CHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	1.01
CIS-1,2-DICHLOROETHENE*	ND	ND	ND	ND	ND	ND	ND	8.72	ND
CIS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYCLOHEXANE	2.15	ND	2.96	2.51	ND	ND	ND	6.2	ND
DIBROMOCHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND
DICHLORODIFLUOROMETHANE	4.68	ND	12.3	10.2	ND	860	54.4	11	2.12
ETHANOL	ND	24.5	57.8	95	ND	ND	ND	23.4	23.7
ETHYL ACETATE	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	ND	ND	12.6	12.2	2.85	ND	ND	7.43	ND
FREON-113	ND	ND	ND	ND	ND	ND	ND	ND	ND
FREON-114	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEPTANE	2.37	ND	14	13.2	148	ND	ND	29.5	ND
HEXACHLOROBUTADIENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
ISOPROPANOL	ND	ND	5.01	ND	ND	ND	ND	ND	3.2
METHYL TERT BUTYL ETHER	ND	ND	ND	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	ND	ND	ND	ND	10.6	ND	ND	10.1	5.18
N-HEXANE	8.71	ND	42.6	41.2	286	12.9	ND	53.9	ND
O-XYLENE	3.65	ND	15	15.3	4.43	ND	3.77	10.9	ND
P/M-XYLENE	8.6	8.34	48.6	48.6	11	ND	9.03	20.6	ND
PROPYLENE	21.3	ND	68.8	66.6	29.3	31.2	ND	45.3	ND
STYRENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE*	106	27.8	55.7	49.7	26.4	46.5	23.8	153	2.15
TETRAHYDROFURAN	ND	ND	4.63	4.57	ND	ND	ND	ND	ND
TOLUENE	6.18	7.69	53.5	51.6	8.59	ND	5.35	22.3	2.57
TRANS-1,2-DICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE*	17.2	ND	6.29	6.29	828	ND	14.1	58.6	ND
TRICHLOROFUOROMETHANE	124	ND	154	153	5.01	6630	271	62.9	1.44
VINYL ACETATE	ND	ND	ND	ND	ND	ND	ND	ND	ND
VINYL BROMIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE*	ND	ND	ND	ND	ND	ND	ND	5.67	ND

Notes:

\* = Volatile Organic Compound subject to NYSDOH Soil Vapor/Indoor Decision Matrices

## **APPENDIX A**

---

### IMPACT ENVIRONMENTAL PHASE I ESA

# **Phase I Environmental Site Assessment**

**June 15, 2007**

*conducted at:*

**505 West 27th Street  
New York, New York  
New York City Tax Map Designation: Block 699: Lots 25, 26, 27 & 44**

*prepared for:*

**699-44 Corp.  
505 West 27th Street  
New York, NY 10001**

*report user:*

**699-44 Corp.  
505 West 27th Street  
New York, NY 10001**

**IE Project # 07-124**

**IMPACT ENVIRONMENTAL**



## TABLE OF CONTENTS

Section	Topic	Page
<b>1</b>	<b>EXECUTIVE SUMMARY.....</b>	<b>3</b>
<b>2</b>	<b>INTRODUCTION.....</b>	<b>6</b>
2.1	Purpose.....	6
2.2	Limitations and Exceptions.....	7
2.3	Special Terms and Conditions.....	9
2.4	User Reliance.....	10
2.5	Project Information .....	10
<b>3</b>	<b>SITE DESCRIPTION .....</b>	<b>11</b>
3.1	Topography .....	11
3.2	Subsurface Geology.....	13
3.3	Soil Component Identification.....	13
3.4	Hydrology.....	13
3.5	Groundwater Characteristics.....	13
<b>4</b>	<b>SITE VISIT .....</b>	<b>14</b>
4.1	Interior Inspection .....	14
4.2	Exterior Inspection .....	15
4.3	Surrounding Properties .....	16
4.4	Limited Scope Identification of Possible Lead Containing Surface Paints .....	16
4.5	Limited Scope Identification of Possible Friable Asbestos Containing Materials .....	17
4.6	Limited Scope Identification of Possible Mold .....	17
4.7	Radon Investigation .....	18
<b>5</b>	<b>REVIEW OF PROVIDED INFORMATION AND INTERVIEWS .....</b>	<b>19</b>
5.1	Owner, Property Manager, and Occupant Information .....	19
5.2	Title Records.....	19
5.3	Environmental Liens .....	20
5.4	Specialized Knowledge.....	20
5.5	Valuation Reduction for Environmental Issues.....	20
5.6	Interviews .....	20
5.7	Interview With Local Government Officials.....	20
<b>6</b>	<b>RECORDS REVIEW.....</b>	<b>22</b>
6.1	Federal Environmental Record Review.....	22
6.1.1	National Priorities List (NPL) .....	22
6.1.2	CERCLIS List.....	23
6.1.3	Federal CERCLIS NFRAP Sites List.....	23
6.1.4	Federal Resource Conservation & Recovery Act (RCRA) CORRACTS Facilities List .....	23
6.1.5	Federal Resource Conservation & Recovery Act (RCRA) TSD Facilities List .....	23
6.1.6	Federal Resource Conservation & Recovery Act (RCRA) Generator List.....	24
6.1.7	Federal Emergency Response Notification System (ERNS).....	24
6.2	State Environmental Record Review.....	25
6.2.1	Inactive Hazardous Waste Disposal Sites .....	25
6.2.2	Hazardous Substance Waste Disposal Sites.....	25
6.2.3	Brownfield Sites .....	26
6.2.4	Historic Utility Facilities .....	26
6.2.5	Solid Waste Management Facilities.....	28
6.2.6	State Pollutant Discharge Elimination System Permits (SPDES) .....	28
6.2.7	Major Oil Storage Facilities (MOSF) .....	29
6.2.8	Chemical Bulk Storage (CBS) Sites .....	29
6.2.9	Petroleum Bulk Storage (PBS) Sites .....	30
6.2.10	Spill Logs.....	30
6.3	City Environmental Record Review.....	33
6.3.1	New York City Department of Environmental Protection.....	33

6.3.2	New York City Fire Department.....	33
6.3.3	New York City Building Department .....	34
<b>7</b>	<b>REVIEW OF HISTORIC DATA .....</b>	<b>36</b>
7.1	City Directories .....	36
7.2	Sanborn Maps.....	37
<b>8</b>	<b>EVALUATION OF DATA AND RECOMENDATIONS .....</b>	<b>40</b>
8.1	Data Gaps .....	40
8.2	Recommended Phase I ESA Activities.....	40
8.3	Recommended Phase II ESA Activities .....	41
8.4	Recommended Remedial Activities.....	43
8.5	Recommended Compliance Activities.....	43
<b>9</b>	<b>CONCLUSIONS.....</b>	<b>44</b>
<b>10</b>	<b>REFERENCES.....</b>	<b>45</b>
<b>11</b>	<b>DISCLAIMER .....</b>	<b>46</b>

Plate 1: Site Topographic Map

Plate 2: Site Location Map

Appendix A: Site Photos

Appendix B: Interview Documentation

Appendix C: Environmental Regulatory Database Review/ Search

Appendix D: Federal Government

Appendix E: State Government

Appendix F: City Government

Appendix G: Sanborn Maps

Appendix H: Qualifications of the Environmental Professional

Appendix I: Qualifications of the Project Manager

### **Document Distribution**

699-44 Corp.	User	Two (2) copies
Impact Environmental Corporate Records	Preparer	One (1) copy



## 1 EXECUTIVE SUMMARY

---

Impact Environmental has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 505 W. 27th Street, New York, New York, ("The Site") under contract to by 699-44 Corp. ("The Client"). Any exceptions to, or deletions from, this practice are described in Section 2.2 of this report.

The Site is currently utilized for the temporary storage and sorting of scrap metals to be recycled at an offsite facility. The Site is bound to the north by West 28<sup>th</sup> Street and beyond by residential and commercial properties; to the south by West 27<sup>th</sup> Street and beyond by commercial properties; to the west by commercial properties; and to the east by residential and commercial properties. The extent of the Site is approximately 0.80 acres and comprises four distinct lots herein referred to as the Site. The Site contains three one-story, masonry and steel buildings constructed in several stages between 1976 to 1979 (without basements), with an approximate combined footprint of 1,200 square feet. The Site is utilized as a metal recycling facility. The existing building is currently serviced by gas fired steam and the New York City public sewer system. The surface area of the Site consists of asphalt and concrete areas, concrete sidewalks and exposed soils.

The on-site inspection and historic research revealed that the Site has historically maintained several residential structures, laundry cleaning, metal works, manufacturing, motor freight storage, automobile repair and a scrap yard. The former on-site operations have created the potential for the Site to have been polluted by organic and/or inorganic contaminants. This potential represents a *recognized environmental condition*. Furthermore, based on these historic uses, the New York City Department of Planning has listed the site with an E-designation for hazardous materials as part of rezoning. The designation was determined based on a preliminary investigation of the site. The results of the investigation indicated that the potential exists for hazardous materials to be present on the site. Lots with E-Designations may not be issued a building permit allowing: 1) any development; 2) an enlargement, extension or change of use involving residential or community facility use; or 3) any enlargement that disturbs the soil on the lot until the New York City Building Department is provided with a report from NYCDEP stating that the environmental E-Designation requirements for the lot have been met. Accordingly, a limited subsurface investigation is recommended to determine if the environmental quality of the Site has been adversely impacted by former land use applications. The results of the subsurface investigation should be submitted to the NYCDEP along with the results of this Phase I ESA Report and any development site plans.

The on-site inspection and a review of New York City building department records revealed the presence of at least four underground storage tanks. In addition, the New York City Building Department had issued a gasoline tank permit in 1934 (GT 81-34). According to the current owner, two abandoned USTs (observed on the northeastern portion of the Site) had a reported capacity of 550 gallons each, and were formerly utilized for the storage of diesel fuel. Further, a fill port (labeled as gasoline) was observed in the sidewalk, immediately north of these diesel USTs. The two inactive USTs maintained on the southwestern portion of the Site (with an unknown capacity) were formerly utilized for the storage of gasoline. A fill port labeled as gasoline was observed in the sidewalk immediately to the south of these abandoned gasoline USTs. No documentation was available regarding the proper decommissioning or any tightness testing associated with these USTs. This lack of documentation represent a *recognized environmental condition*. Accordingly, it is recommended that a ground penetration radar survey be conducted to determine the precise location of the USTs. Further, it is recommended that a limited subsurface investigation be conducted to determine if the Site has been impacted from the aforementioned abandoned USTs.

Several off-site confirmed or potential contamination sources were identified to exist within the ASTM search radius. However, according to the USEPA Small Business Liability Protection Act indicates that "a person that owns real property that is contiguous to or otherwise similarly situated with respect to, and that is or may be contaminated by a release or threatened release of a hazardous substance from, real property that is not owned by that person shall not be considered to be an owner or operator of a vessel or facility under paragraph (1) or (2) of subsection (a) solely by reason of the contamination if— "(i) the person did not cause, contribute, or consent to the release or threatened release; "(ii) the person is not— "(I) potentially liable, or affiliated with any other person that is potentially liable, for response costs at a facility through any direct or indirect familial relationship or any contractual, corporate, or financial relationship (other than a contractual, corporate, or financial relationship that is created by a contract for the sale of goods or services); or "(II) the result of a reorganization of a business entity that was potentially liable; "the person takes reasonable steps to "(I) stop any continuing release; "(II) prevent any threatened future release; and prevent or limit human, environmental, or natural resource exposure to any hazardous substance released on or from property owned by that person; "(iv) the person provides full cooperation, assistance, and access to persons that are authorized to conduct response actions or natural resource restoration at the vessel or facility from which there has been a release or threatened release (including the cooperation and access necessary for the installation, integrity, operation, and maintenance of any complete or partial response action or natural resource restoration at the vessel or facility); "(v) the person— "(I) is in compliance with any land use restrictions established or relied on in connection with the response action at the facility; and integrity of any institutional control employed in "(II) does not impede the effectiveness or connection with a response action; "(vi) the person is in compliance with any request for information or administrative subpoena issued by the President under this Act; "(vii) the person provides all legally required notices with respect to the

discovery or release of any hazardous substances at the facility; and "at the time at which the person acquired the property, the person— "(I) conducted all appropriate inquiry within the meaning of section 101(35)(B) with respect to the property; and "(II) did not know or have reason to know that the property was or could be contaminated by a release or threatened release of one or more hazardous substances from other real property not owned or operated by the person." Accordingly, additional Phase II activities are recommended to identify any potential contamination on the Site that may be acting as a contributing source to the underlying groundwater contamination; and determine what, if any, impacts to groundwater quality on the Site have occurred resulting from the above referenced off-site sources.

Accordingly, additional activities are recommended to define and/or enhance the environmental quality of the Site (see Recommended Phase II ESA Activities in Section 8.3). In addition, the recommended Phase I ESA, compliance, and remedial activities should be performed as outlined in Section 8.2, 8.4, and 8.5.

## 2 INTRODUCTION

---

### 2.1 Purpose

This assessment is intended, where applicable to the standard of care, to satisfy the requirements of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments, as published in ASTM E 1527-05. Banks, insurance companies, and prospective property purchasers require an understanding of existing and past property conditions and uses in order to assess the potential liabilities associated with a property. This assessment has been completed by a qualified environmental professional as defined in ASTM Standards.

This report is not intended to present any legal opinions. The data and all conclusions presented in this report should be verified by the Client's and User's legal counsel.

The objectives of this Environmental Site Assessment are stated as follows:

- Establish a basis of understanding of the past and present land uses of the Site in order to identify potential environmental and/or public health risks.
- Establish a basis of understanding of the past and present surrounding land uses and environmental resources in order to determine their impact on the environmental quality of the Site.
- Constitute an all appropriate inquiry suitable for establishing innocent landowner, contiguous property owner, or bona fide prospective purchaser (also referred to as "land owner liability protections" or "LLPs") pursuant to 42 U.S.C. § 9601 (35) (B) and the Brownfield Revitalization and Environmental Restoration Act of 2001 (Brownfield Act).
- Provide information that can be used to evaluate CERCLA liability and "good neighbor" responsibilities for contaminants migrating onto or under the Site from contiguous properties in consideration of the Brownfield Act.
- Identify, to the extent feasible, *recognized environmental conditions* (RECs) in connection with the Site and surrounding properties. The term *recognized environmental conditions* means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus conditions that generally do not present a material risk of harm to public health or the environment and that

generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimus are not recognized environmental conditions.

## **2.2 Limitations and Exceptions**

This Phase I Environmental Site Assessment was conducted solely to permit Impact Environmental to render a professional opinion about the likelihood of regulated contaminants being present on, in, or beneath the Site in question at the time services were conducted. No matter how thorough a Phase I Environmental Site Assessment study may be, findings derived from its conduct are limited, and Impact Environmental cannot know or state for an absolute fact that a site, or a portion of the site, is unaffected by reportable quantities of regulated contaminants. Furthermore, even if Impact Environmental believes that reportable quantities of regulated contaminants are not present, there still exists a risk that such contaminants may be present or may migrate to the site after the study is complete. This assessment is dated, and is only valid for activities that occurred prior to the date of the site visit. Activities, liabilities, and alterations to the Site subsequent to the date of the site visit are not included in the assessment.

ASTM has developed a variety of prescriptive professional practice standards (standard practices and standard guides), identify specific methods professionals could or should use to attain results. Such prescriptive professional practice standards fail to consider the unique needs of a client, the client's project-specific expectations, or the requirements and obligations of the professionals engaged to provide service, nor do they consider more effective techniques that may have been developed subsequent to the issuance of such standards. These ASTM standards are generic and general in nature and, therefore, do not always constitute, nor are they tantamount to the applicable standard of care, which necessarily is defined and must consider project-specific contractual terms and other particular needs, expectations, circumstances, and requirements of the project and the professional engagement. Full adherence to ASTM's prescriptive professional practice standards may not be appropriate or in the best interests of the client or the project. Impact Environmental's instruments of service. Impact Environmental has worked to develop a scope of service specifically for this project, in accordance with client's needs and preferences and Impact Environmental's professional and contractual obligations.

The ASTM Standards provide specific guidance with regard to radon, asbestos, lead in drinking water, lead based paint, and polychlorinated biphenyls (PCBs). Analysis of the CERCLA implications with regard to the innocent landowner defense under Superfund finds that naturally occurring radon is not subject to CERCLA liability and is appropriately considered as a non-scope issue. Accordingly, this assessment will only provide general guidance on this issue, and will not involve or recommend air monitoring for radon gas.

Similarly, the ASTM Standards do not recognize liability with regard to asbestos that is part of the building materials of a structure, in accordance with CERCLA innocent landowner defense under Superfund. In the

interest of serving the client and addressing the needs of the *user*, this assessment will identify possible observed asbestos containing materials (ACMs), may pose a health threat. This assessment is not a full asbestos survey as would be required for building demolition, or identification of all possible sources of ACM, regardless of health danger.

Lead in drinking water and lead based paint are also issues that are considered to be non-scope under CERCLA innocent landowner defense under Superfund. Lead based paint was in use for many years, and it is likely that many older buildings will have surfaces coated with lead based paint. As a general rule, painted surfaces should be maintained and ingestion of paint products should be avoided. If disposal of these materials were involved, disclosure of this practice would be subject to the scope of this environmental assessment. In the interest of serving the user, this report may include limited field-testing of surface paints and the observations on the condition of the painted surfaces. Lead in drinking water generally occurs as a result of past use of high lead content solder. Water left stagnant in pipes overnight or longer may leach lead from these joints and affect drinking water quality. As a general rule, water should be run for several minutes in the morning where such plumbing may be present.

This assessment will not identify all potential sources of PCB containing oils. Common sources of these materials include transformers and fluorescent lamp ballasts. Electric service transformers may include ground level or pole mounted units. These transformers are owned and maintained by regional public utilities. Transformers are inventoried and periodically inspected. Public utility company representatives have reported that transformers were not manufactured to contain PCB contaminated oils. Aggressive and destructive testing, which would be required for definitive identification of PCB containing oils, is beyond the scope of this study.

In addition to these non-scope considerations, ASTM also lists other issues that are beyond the scope of the standard practice for Phase I Environmental Site Assessments. These include wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, molds, urban fill containing non-point source related contaminants and high voltage power-lines. However, it is noted that this list is not intended to be all-inclusive. Identification and interpretation of several of these issues will be addressed by Impact Environmental as necessary to meet the standard of care.

It must be noted that the accuracy of any assessment is limited to the information available during the time of the site visit; the records, files, and drawings provided by the owner and released by governmental agencies; and the accuracy and completeness of the information provided during interviews.

### 2.3 Special Terms and Conditions

It is the responsibility of the *user* of this report (the party seeking to use this Environmental Site Assessment; i.e., the purchaser, lender, owner, potential tenant, or property manager) to provide certain information utilized in the report. This would include reporting of any *environmental liens* (for example, consideration against the property for response action, cleanup, or remediation of hazardous substances or petroleum products) encumbering the property or specialized knowledge or experience that would assist in identifying *recognized environmental conditions*.

The standard of care is uniform in each Phase I Environmental Site Assessment (ESA); however, the availability of information, relevance, and quality of information can vary. As per ASTM Standards, the "*environmental professional* is not required to verify independently the information provided, but may rely on information provided unless he or she has actual knowledge that certain information is incorrect or unless it is obvious that certain information is incorrect based on other information obtained in the Phase I ESA or otherwise actually known to the environmental professional." Personnel involved in report preparation will make judgments on the accuracy of *user* provided information and conduct additional research as necessary in order to meet the requirement of identifying *recognized environmental conditions* on the Site.

ASTM provides a number of standard sources of historic information. Impact Environmental will seek to research historic information as may be available as a means of cross confirmation. According to ASTM's Standard Practice for Environmental Site Assessments (E 1527-05), the "environmental professional is required to review only record information that is *reasonably ascertainable*," whereby *reasonably ascertainable* is defined as:

- Information that is *publicly available*.
- Information that is obtainable from its source within *reasonable time* and cost constraints.
- Information that is *practically reviewable*.

ASTM defines *reasonable time constraints* as information being provided by the source within twenty days of receiving a written request. *Practically reviewable* means that "the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the property without the need for extraordinary analysis of irrelevant data." Publicly available means "that the source of the information allows access to the information to anyone upon request."

Based on ASTM Standards, the Phase I ESA is not intended to include any sampling and analysis of materials associated with the Site (i.e., soil, water, air, or building materials). However, if it has been noted by Impact Environmental that certain non-scope issues may be of concern to the *user*, a limited sampling and analysis program may be included under the scope of this assessment (lead surface paints and friable asbestos). Radon test results published by the USEPA Office of Radiation and Indoor Air in conjunction with the USGS were reviewed in lieu of sampling.

## **2.4 User Reliance**

This assessment was performed at the request of 699-44 Corp. utilizing methods and procedures consistent with good commercial or customary practices. This assessment is intended, where applicable to the standard of care, to satisfy the requirements of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments, as published in ASTM E 1527-05. The independent conclusions represent the best professional judgment of the Environmental Professional based on the conditions that existed and the information and data available to Impact Environmental during the course of this assignment. Factual information regarding operations and conditions provided by the client, owner, or the representative has been assumed to be correct and complete. The report may be distributed and relied upon by 699-44 Corp.. Reliance on the information and conclusions presented in this report by other party(ies) is not authorized by Impact Environmental.

## **2.5 Project Information**

Contract Activation Date	May 15, 2007
699-44 Corp. Timetable:	6 weeks
Project Deadline:	June 22, 2007



### **3 SITE DESCRIPTION**

---

The Site is currently utilized for the temporary storage and sorting of scrap metals to be recycled at an offsite facility. The areal extent of the Site is approximately 34,450 square feet. The Site contains three single-story, masonry buildings with an approximate footprint of 1,200 square feet. The surface area of the Site consists of asphalt and concrete areas, concrete walkways and exposed soils. The Site exhibits low topographic relief (less than three percent slopes).

#### **3.1 Topography**

The Site lies north of the terminal moraine in what is considered ground moraine, commonly referred to as till. The ground moraine consists of all the unstratified drift which lodged beneath the ice during its advance, all that was deposited back from its edge while its margin was farthest south, and most of that deposited while the ice was retreating.

The character of the till in any locality is made up predominantly of materials derived from formations close at hand. This leads to the conclusion that deposition must have gone on beneath the ice during its movement, even back from its margin. The fact that so little of the drift about New York City came from points as much as 100 miles to the north proves that a large part of the material gathered by the ice even so short a distance north of its edge was never brought down to the latitude of New York City.

Between the Hudson River on the west and the Sound to the east, the till is so thin as to constitute no more than a discontinuous mantle, which scarcely masks the surface of the rock. Outcrops of rock are common throughout the area, not only on the ridges, but in the valleys as well. The topography of the region is determined almost wholly by the rock beneath, and hardly at all by the drift, which has no further influence on the configuration of the surface than to even up, to a slight extent, the roughness of the rock. In contrast with the western end of Long Island, this area shows the effects of glacial erosion, rather than of glacial deposition. On the whole, the till, especially west of the Bronx, is rather thicker on the west sides of the ridges than on the tops and east sides. It occasionally reaches thicknesses of 40 or 50 feet, but its average is probably less than 10 feet. Where it is thin, it is often made up almost wholly of angular and unworn debris derived from the rock immediately beneath. Where it is thick, there is more material which has been transported farther.

Along the Hudson south of Fort Washington, the till is generally red or reddish, like that farther west and south. but north and east of this point, the redness diminishes perceptibly, and is nowhere conspicuous east of the Harlem River. This distribution of debris derived from the Triassic formation to the west - for this is

what gives the drift its red color - is as significant of the direction of ice movement as the striae are. East of the area where the till is red, it has a grayish or brownish color - the color of the crystalline rock formations from which its materials were mostly derived. The till here is not generally so clayey as that of Long Island and Staten Island, but it is gritty and sandy, the product of crushing and grinding of schist and gneiss. As is common where till has this constitution, it often shows foliation; i.e., an indistinct cleavage structure apparently induced by pressure.

## Geologic Map of New York City

Compiled by Pamela Chase Brock & Patrick W.G. Brock, Oct 2001

From the Geologic Map of New York State (Fisher et al., 1970)

Engineering Geology Maps of New York City (Baskerville, 1992, 1994)

Field Guides to New York City Geology (Merguerian and Sanders 1990-1993)

Geology of the Brooklyn and Queens water tunnels (Chesman 1997, Schnock 1999,

Merguerian personal communication, and Brock et al., 2001)

and mapping by the authors

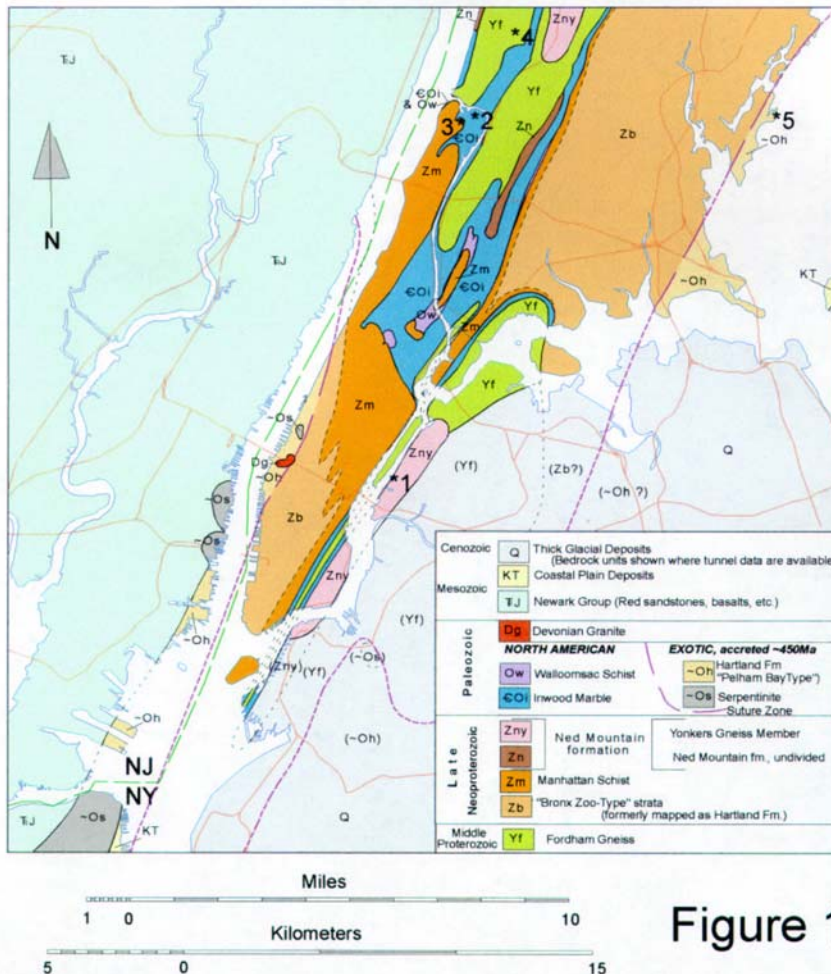


Figure 1

Boulders are, on the whole, abundant. In the southern and western parts of the area, those of trap predominate. Elsewhere, those of gneiss and schist predominate. In a few points, they are plentiful.

The elevation of the Site, as presented on the United States Geologic Survey (USGS), Weehawken Quadrangle Map, approximates fifteen (15) feet above sea level. The USGS Map, which was base dated 1966, and revised in 1999, did not depict a structure on the Site (the property is within an area in which only landmark buildings were mapped).

### **3.2 Subsurface Geology**

All of the New York City district except the southernmost part of the Brooklyn quadrangle and a small area in the southeastern part of Staten Island was covered by the continental ice sheet of the last Glacial epoch. The edge of the ice made a protracted halt at its position of maximum advance, as shown by the terminal moraine which it left. All the drift south of the moraine is stratified, while that lying north of it is partly stratified and partly unstratified. South of the moraine, stratified gravel and sand, washed out from the ice by the waters issuing from it, were deposited over most of the land area which the ice spared.

While the Pleistocene deposits of the New York City district are chiefly of Glacial Age, and of glacial or fluvio-glacial origin, some of them, such as river alluvium, eolian sand, and the beach deposits, are of post-Glacial age. Though the materials of these various classes of deposits were largely derived from the glacial drift, the deposits, in their present form, are distinct from the drift for which the ice was directly responsible. Still other Pleistocene deposits of limited extent within the district under consideration antedate the great body of glacial drift.

The formations of the Glacial age can be described as terminal moraine, stratified drift (of fluvio-glacial origin), or ground moraine.

### **3.3 Soil Component Identification**

The Site lies within an area classified as Urban Land. This soil type consists of urbanized areas where the majority of the surface is covered with buildings, roads, driveways, parking lots, and other manmade structures. Further classification of the soils in these areas is impractical.

### **3.4 Hydrology**

The surficial geology of Manhattan generally includes very thin layers of unconsolidated glacial deposits underlain by an igneous feature. Accordingly, potable groundwater does not generally exist in Manhattan.

### **3.5 Groundwater Characteristics**

Regional groundwater flow direction in the area of the Site cannot be properly determined without the installation of groundwater monitoring wells, however is expected to be toward the west.

## **4 SITE VISIT**

---

A site visit was conducted by James Cressy of Impact Environmental on May 30, 2007, to observe and document site conditions. The site visit was performed accompanied by Mr. Len Formato, the Site owner. *[Site photographs are included in Appendix A].*

### **4.1 Interior Inspection**

The interior of the building is utilized as office and storage space. The building was inspected on May 30, 2007, by staff Environmental Scientist, James Cressy. Available for this portion of the inspection was Mr. Len Formato, the Site owner. The inspection revealed the following information relevant to the environmental quality of the Site:

1. No underground storage tanks (USTs) were identified in the buildings.
2. No above ground storage tanks (ASTs) were observed in the buildings.
3. No electrical transformers suspected of containing polychlorinated biphenyl (PCB) bearing dielectric fluid were observed in the buildings.
4. A drop ceiling was in place in the office area. The ceiling tile construction did not appear to contain asbestos.
5. No friable asbestos containing materials were identified in the buildings.
6. No floor drains were observed in the building. However, it should be noted that due to the amount of storage in the buildings, the entire floor area could not be inspected.
7. Several bathrooms were observed in the buildings. The surfaces of the associated plumbing fixtures were inspected for observable indications of chemical staining that would be indicative of the disposition of chemical substances via the bathroom plumbing. The fixture surfaces in the bathrooms did not exhibit any signs of chemical staining.
8. A natural gas fired steam furnace was observed in the buildings.

## **4.2 Exterior Inspection**

The exterior of the Site was inspected on June 22, 2007, by staff Environmental Scientist, James Cressy. Available for this portion of the inspection was Mr. Len Formato, the Site owner. The inspection of the Site revealed the following information relevant to the environmental quality of the Site:

1. There were four inactive underground storage tanks (USTs) identified on the Site. Two USTs were observed on the northeastern portion of the Site. These USTs were identified by the presence of fill and vent pipes proximal to said USTs. The USTs had a reported capacity of 550 gallons each, and were formerly utilized for the storage of diesel fuel. Two inactive USTs were observed on the southwestern portion of the Site. These USTs were identified by the presence of fill and vent pipes along the eastern portion of the contiguous structure. The USTs had an unknown capacity and were formerly utilized for the storage of gasoline.
2. Two fill ports, labeled as gasoline, were observed on the sidewalk. One was observed on the northern sidewalk, immediately north of the above mention diesel USTs. The second gasoline fill port was observed on the southern sidewalk, immediately south of the aforementioned gasoline USTs (see Site map for the locations).
3. An inactive gasoline pump island was observed on the southwestern portion of the Site. No staining was observed proximal to said pump island.
4. There was no above ground storage tanks (ASTs) observed outside the existing buildings.
5. No electrical transformers suspected of containing PCB bearing dielectric fluid were observed on the Site.
6. There was no visible evidence of the illegal storage or dumping of asbestos containing materials on the Site.
7. Several piles of steel, iron and various other metals were observed on the western portion of the Site.
8. Surface staining was observed beneath the machinery utilized for on-site activities.
9. No drywells (Class V, well code 5D2, storm water drainage wells as defined under the USEPA Underground Injection Control Program) were observed on the Site.
10. Roof drainage appeared to be directed below to grade.

11. All building sanitary discharge appeared to be directed to the New York City sewer system.
12. Several solid waste containers were observed on the Site. Said containers appeared to store solid waste associated with in-site activities.
13. A water service port was observed on the southern portion of the Site.
14. Natural gas service apparatus was observed on the southern portion of the Site.
15. Surficial petrochemical staining was noted on the asphalt, concrete and exposed soil portions of the Site. Said staining appeared to be the result of releases that were below the volume requiring notification of the NYSDEC.

#### 4.3 Surrounding Properties

Land uses occurring on the surrounding properties may have an effect on the environmental quality of the Site. Accordingly, a visual inspection was performed on the properties immediately adjacent to the Site. The following information was noted.

Direction	Land Use	Evidence of any storage, handling, or discharge of hazardous substances
North	West 28 <sup>th</sup> Street, Commercial/Residential	None identified from limited visual inspection from property border
East	Commercial/Residential	A fuel oil fill port was observed in the sidewalk contiguous to the northeast
South	West 27 <sup>th</sup> Street, Commercial	None identified from limited visual inspection from property border
West	Commercial/Residential	None identified from limited visual inspection from property border

#### 4.4 Limited Scope Identification of Possible Lead Containing Surface Paints

The element of lead has no function in the body. It can have poisonous effects on human organs and the nervous system, causing a variety of toxic reactions. Since lead accumulates in the body more rapidly than it can be removed, repeated exposures, even to small amounts, may produce lead poisoning. In addition, deteriorating lead components may allow lead to become airborne [CAS# 7439-92-1]. Threshold limit values have been established at 0.15 mg/m<sup>3</sup> (of air) by the American Conference of Governmental Industrial

Hygienists. A non-destructive survey was performed. Said survey was not intended to constitute a full lead paint survey, which is beyond the scope of this report.

1. Analysis of said sample for lead content revealed that lead concentrations were below detection limits.
2. Based on the age of the building, it is possible that lead containing paints exist below the surface layer in portions of the building.

#### **4.5 Limited Scope Identification of Possible Friable Asbestos Containing Materials**

Asbestos has been linked to various types of lung diseases. Various regulatory agencies have tolerance limits of 1% by weight for asbestos in materials. Any material that contains asbestos levels above this limit may be considered hazardous and may have to be abated. A non-destructive survey was performed. Said survey was not intended to constitute a full asbestos survey, which is beyond the scope of this report. The results of the survey are listed below:

1. No suspected friable asbestos containing materials were observed, and no samples were secured.
2. Based on the age of the building, it is possible that asbestos-containing materials may exist in the building materials.

#### **4.6 Limited Scope Identification of Possible Mold**

As part of this assessment, Impact Environmental performed a limited visual inspection for the significant presence of mold. A class of fungi, molds has been found to cause a variety of health problems in humans, including allergic, toxicological and infectious responses. Molds are decomposers of organic materials which thrive in humid environments and produce tiny spores to reproduce, just as plants produce seeds. When mold spores land on a damp spot indoors, they may begin growing and digesting whatever they are growing on in order to survive. When excessive moisture or water accumulates indoors, mold growth will often occur, particularly if the moisture problem remains undiscovered or unaddressed. As such, interior areas of buildings characterized by poor ventilation and high humidity are the most common locations of mold growth. Building materials including drywall, wallpaper, baseboards, wood framing, insulation and carpeting often play host to such growth.

Impact Environmental observed interior areas of the Site structures for the significant presence of mold. Impact Environmental did not observe any obvious visual or olfactory indications of the presence of mold, nor

did Impact Environmental observe obvious indications of significant water damage. As such, no bulk sampling of suspect surfaces was conducted as part of this assessment. This activity was not designed to discover all areas that may be affected by mold growth on the Site. Rather, it is intended to give the client an indication if significant (based on observed areas) mold growth is present at the Site. Additional areas of mold not observed as part of this limited assessment, possibly in pipe chases, HVAC systems and behind enclosed walls and ceilings, may be present on the Site.

#### **4.7 Radon Investigation**

Radon is a colorless, odorless, inert gas which has become an air contaminant in certain geographic areas. Radon is a natural isotope which is most commonly present in association with crystalline bedrock and occasionally other geologic deposits. Naturally occurring isotope decay can emit radiation, which when converted to radioactive metal oxide deposits in the lungs, causes health concerns from inhalation. Radon levels generally increase in areas where bedrock is close to the land surface, and generally only creates a health related problem where underground basements are constructed. A basement can allow radon gas to accumulate in a manner that could cause exposure. Geographically, radon may be of concern in certain parts of Queens and points further west. Absent these conditions, radon gas presents less of a concern. The only way to determine concretely if radon gas is present is to perform air monitoring. Said monitoring is beyond the scope of this report.

The EPA issued a publication entitled Map of Radon Zones dated September 1993. Said document was prepared by the USEPA Office of Radiation and Indoor Air in conjunction with the USGS. According to said publication, 1123 sites were tested for indoor radon concentrations in the five boroughs of New York City between the years 1985 and 1993. The following information was revealed (based on an action level for radon of 4 pCi/L).

<u>Average Activity</u>	<u>% &lt;4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% &gt;20 pCi/L</u>
1.4 pCi/L	95%	5%	0%



## 5 REVIEW OF PROVIDED INFORMATION AND INTERVIEWS

---

Mr. Len Formato was requested to provide certain information that is relevant to the environmental quality Site; including site history information, title reports, environmental liens, specialized knowledge; and previous environmental reports. This information was evaluated by Impact Environmental for this Phase I ESA. The following table summarizes the information that was provided by Mr. Formato.

Item	Provided	Not Provided
Phase I Questionnaire	X	
Title Records		X
Environmental Liens or Activity and Use Limitation		X
Specialized Knowledge		X
Valuation Reduction for Environmental Issues		X
Identification of Key Site Manager	X	
Reason for Performing Phase I ESA	X	
Corporate Records		X

### 5.1 Owner, Property Manager, and Occupant Information

The Site is currently owned, managed, and occupied by Central Iron & Metal Co Inc. Mr. Len Formato, was identified as the key on-site contact.

### 5.2 Title Records

Review of the chain-of-title information is included in the scope of work for this project. The property ownership was researched by James Cressy of Impact Environmental through the New York City Department of Finance Office of City Register. *[Please see Appenidix F for detailed information]*

At the time of this assessment, Mr. Formato did not provide any title records for the Site. Historic title records were reviewed from the City of New York Assessors Office, but did not reveal any information relevant to the environmental quality of the Site.

### 5.3 Environmental Liens

The Phase I Questionnaire was completed by 699-44 Corp., Mr. Len Formato and is included in *Appendix B*. Mr. Formato indicated no knowledge of environmental liens against the Site, or limitations related to the environmental conditions.

### 5.4 Specialized Knowledge

Mr. Len Formato completed the Phase I Questionnaire and reported no specialized knowledge of HRECs, PCBs, or other *recognized environmental conditions* in the connection with the Site.

### 5.5 Valuation Reduction for Environmental Issues

Mr. Len Formato completed the Phase I Questionnaire and indicated that the property value or purchase price has not been devalued compared to comparable properties, as a result of environmental conditions at the Site or surrounding properties.

### 5.6 Interviews

The interview(s) revealed the following information relevant to the environmental quality of the Site [*See Appendix B*].

Contact Interviewed	Date	Relationship to Site	Relevant Information
Mr. Len Formato	05-30-2007	Owner	Four inactive USTs are located on the Site.

1. According to Mr. Formato, the Site is serviced by natural gas and the New York City public sewer system.
2. According to Mr. Formato, the Site is intended to be redeveloped and utilized in a residential capacity.
3. According to Mr. Formato, the gasoline and diesel USTs were abandoned in place.
4. According to Mr. Formato, the western portion of the Site maintains a 3' thick concrete foundation.
5. According to Mr. Formato, he has been associated with the Site since the late 1970's.

### 5.7 Interview With Local Government Officials

An interview with a representative of the New York City Fire Department (NYCFD) regarding the environmental quality of the Site has revealed the following information.

1. According to the NYCFD representative, no information can be released regarding the Site until a Freedom of Information request has been received and approved. No response has been received to date regarding the Freedom of Information request submitted for the Site.

## **6 RECORDS REVIEW**

---

The Freedom of Information Act/Law provides rights of access to all government documents not exempt from disclosure. Accessible records include paper documents and items such as video/audio tape recordings, microfilm, and computer disks. Impact Environmental examined relevant government documentation so as to define implicit parameters affecting the environmental quality of the Site. The appropriate Freedom of Information requests were submitted and are included in the appendix of this document.

Information from standard federal, state, county and local environmental record sources was provided by Toxics Targeting Environmental Report, Inc. Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. This integrated database also contains postal service data in order to enhance address matching. Records from one government source are compared to records from another to clarify any address ambiguities. The demographic and geographic information available provides assistance in identifying and managing risk. In some cases, location information supplied by the regulatory agencies is insufficient to allow the database companies to geocode facilities locations. These facilities are listed under the unmappables section within the Toxics Targeting Environmental Report.

Regulatory information from the following database sources regarding possible recognized environmental conditions, within the ASTM minimum search distance from the Site was reviewed. Specific facilities are discussed below if determined likely that a potential recognized environmental condition has resulted at the Site Property from the listed facilities. *[Please refer to Appendix C for a complete listing]*

### **6.1 Federal Environmental Record Review**

A Freedom of Information request was submitted to the United States Environmental Protection Agency (EPA). A response has been received and did not provide relevant information in regards to the environmental quality of the Site. *Environmental Protection Agency (EPA) [See Appendix D]*

#### **6.1.1 National Priorities List (NPL)**

The National Priorities List (NPL) is the Environmental Protection Agency (EPA) database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund Program.

1. The Site is not listed as a NPL facility.
2. No NPL sites are located within one-mile of the Site.

### 6.1.2 CERCLIS List

The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list is a compilation of sites that the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances.

1. The Site is not listed as a CERCLIS facility.
2. No CERCLIS sites are listed within 1/2-mile of the Site.

### 6.1.3 Federal CERCLIS NFRAP Sites List

The CERCLIS No Further Remedial Action Planned (NFRAP) List is a compilation of sites that the EPA has investigated, and has determined that the facility does not pose a threat to human health or the environment, under the CERCLA framework.

1. The Site is not listed as a CERCLIS-NFRAP facility.
2. One CERCLIS-NFRAP site is listed within 1/2-mile of the Site.

A)

Manhattan Central Mail Facility
West 29 <sup>th</sup> Street & 9 <sup>th</sup> Avenue
Located: 1140 feet to the east of the Site
Facility ID: 0203777

### 6.1.4 Federal Resource Conservation & Recovery Act (RCRA) CORRACTS Facilities List

The EPA Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The CORRACTS database is the EPA's list of treatment storage or disposal facilities subject to corrective action under RCRA.

1. The Site is not listed as a RCRA CORRACTS TSD facility.
2. No RCRA CORRACTS TSD facilities are listed within one-mile of the Site.

### 6.1.5 Federal Resource Conservation & Recovery Act (RCRA) TSD Facilities List

The EPA Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA TSD database is a compilation by the EPA of reporting facilities that treat, store or dispose of hazardous waste.

1. The Site is not listed as a RCRA TSD facility.
2. No RCRA TSD sites are listed within 1/2-mile of the Site.

#### **6.1.6 Federal Resource Conservation & Recovery Act (RCRA) Generator List**

The RCRA program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Generators database is a compilation by the EPA of reporting facilities that generate hazardous waste.

1. The Site is not listed as a RCRA facility.
2. No RCRA Generator facilities are listed on the adjacent properties.

#### **6.1.7 Federal Emergency Response Notification System (ERNS)**

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported release of oil or hazardous substances.

1. No ERNS sites are listed on the Site or on the adjacent properties.

## **6.2 State Environmental Record Review**

A Freedom of Information request was submitted to the New York State Department of Environmental Conservation (DEC). A response has been received and did not provide relevant information in regards to the environmental quality of the Site. *New York State Department of Environmental Conservation (NYSDEC) [See Appendix E]*

### **6.2.1 Inactive Hazardous Waste Disposal Sites**

New York's Inactive Hazardous Waste Disposal Site Registry is also known as the State Superfund. According to State authorities, these active or abandoned sites can pose serious environmental or health hazards that require investigation or clean up. Sites include toxic dumps, garbage landfills, factories, dry cleaners or illegal disposal sites that have caused extensive air, water, groundwater or soil contamination.

#### **Classification System:**

- Class 1 - Causing or presenting an imminent danger of causing irreversible or irreparable damage to public health or the environment - immediate action required.
- Class 2 - Significant threat to the public health or environment - action required.
- Class 2a – This temporary classification has been assigned to sites where there is inadequate data to assign them to the five classifications specified by law.
- Class 3 - Does not present a significant threat to the environment - action may be deferred.
- Class 4 - Site properly closed - requires continual management.
- Class 5 - Site properly closed, no evidence of present or potential adverse impact - no further action required.
- Class D1, D2, D3 – Delisted Site (D1-Hazardous waste not found; D2-Remediated; D3-Consolidated site or site incorrectly listed)

1. The Site is not listed as an inactive hazardous waste disposal site.
2. There are no sites within a one-mile radius of the Site that appear in the NYSDEC publication, Inactive Hazardous Waste Disposal Sites in New York State.

### **6.2.2 Hazardous Substance Waste Disposal Sites**

These properties often pose serious environmental or health hazards, but they may have been low priorities for investigation or clean up because on-site contamination may not constitute "hazardous waste." Sites include utility coal tar facilities, wood tar sites and properties polluted with petroleum that have caused extensive air, water, groundwater or soil contamination.

1. The Site is not listed as a hazardous waste disposal site.
2. There are no sites within a 1/2-mile radius of the Site that appear in the NYSDEC publication, Hazardous Substance Waste Disposal Site Study.

### **6.2.3 Brownfield Sites**

These properties are a listing of site that are abandoned, idled, or under-used industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination. The Voluntary Cleanup Program involves hazardous waste sites that have had their listing in the (above referenced publication) deferred while being investigated and remediated voluntarily under NYSDEC supervision. Coal tar sites may have previously been listed in the publications, but they were removed as a result of a Departmental legal review that revealed that most coal gasification wastes do not meet the New York State definition of hazardous waste. These sites are currently being investigated and remediated in conjunction with the regional utility companies, and it is possible that some of these sites may qualify as hazardous waste sites as information becomes available. In addition, the NYSDEC lists sites that fall under the 1996 Clean Water / Clean Air Bond Act Environmental Restoration Program (Brownfields Program). The Brownfields Program involves sites that are currently vacant or only partially utilized, have an industrial or commercial history, and are suspected or confirmed to have soil and / or groundwater contamination

1. The Site is not listed as an Environmental Restoration Program (Brownfields Program) site.
2. There are no sites within a 1/2-mile radius of the Site that appear in the NYSDEC Brownfields Cleanup Program.
3. There are no sites within a 1/2-mile radius of the Site that appear in the NYSDEC Voluntary Cleanup Program listing.

### **6.2.4 Historic Utility Facilities**

These are power generating structures, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites.

1. The Site is not listed as a NYSDEC Historic Utilities site.
2. There are six sites within a one-mile radius of the Site that appear in the NYSDEC Historic Utilities site listing.



A)

Con Edison 19 <sup>th</sup> Street Works MGP
11 <sup>th</sup> Avenue Between West 19 <sup>th</sup> and West 20 <sup>th</sup>
Located: 2028 feet to the southwest of the Site
Facility ID: N/A

B)

Con Edison West 18 <sup>th</sup> Street MGP
West 16 <sup>th</sup> & west 20 <sup>th</sup> Streets
Located: 2187 feet to the south southwest of the Site
Facility ID: N/A

C)

19 <sup>th</sup> Street Development Site
80 11 <sup>th</sup> Avenue
Located: 2660 feet to the southwest of the Site
Facility ID: N/A

D)

Con Edison-West 42 <sup>nd</sup> Street MGP
West 41 <sup>st</sup> & West 42 <sup>nd</sup> Streets
Located: 3872 feet to the north northeast of the Site
Facility ID: N/A

E)

Con Edison 12 <sup>th</sup> Avenue Works MGP
12 <sup>th</sup> Avenue between West 46 <sup>th</sup> and West 45 <sup>th</sup> Streets
Located: 4701 feet to the north northeast of the Site
Facility ID: N/A

F)

Con Edison West 45 <sup>th</sup> Street MGP
12 <sup>th</sup> Avenue between West 44 <sup>th</sup> and west 46 <sup>th</sup> Streets
Located: 4701 feet to the north northeast of the Site
Facility ID: N/A

### 6.2.5 Solid Waste Management Facilities

The NYSDEC maintains a listing of all registered and permitted landfills, transfer stations, and solid waste disposal sites within New York State. A review of this listing has revealed the following information relevant to the environmental quality of the Site:

1. The Site is not listed as a Solid Waste Management Facility.
2. There are two sites within a 1/2-mile radius of the Site that appear on the listing.

A)

Con Edison West 28 <sup>th</sup> Street 281 11 <sup>th</sup> Avenue
Located: 814 feet to the northwest of the Site
Facility ID: NYD077444263 Facility Type: Large transfer station

B)

Red Ball Interior Demolition 625 West 29 <sup>th</sup> Street
Located: 1113 feet to the northwest of the Site
Facility ID: 31T08 Facility Type: Inactive transfer station

### 6.2.6 State Pollutant Discharge Elimination System Permits (SPDES)

In 1973, New York passed the State Pollutant Discharge Elimination System (SPDES) Act, which provides for state permits for point source discharges to surface and ground waters. The USEPA delegated authority to NYSDEC to regulate the issuance of all National Pollution Discharge Elimination Systems (NYPES) permits as stipulated under sections 307, 318, 402, and 405 of the Clean Water Act, under the state SPDES program. A review of SPDES permit listings in New York City revealed the following information relevant to the environmental quality of the Site:

1. No SPDES permits are listed for the Site.
2. No SPDES permits are listed for the contiguous with the Site.

### 6.2.7 Major Oil Storage Facilities (MOSF)

Major Oil Storage Facilities have at least 400,000 gallons of storage capacity (as per Article 12 of the Navigation Law, 6 NYCRR Part 610, and 17 NYCRR Part 30) and often experience leaks, spills or other uncontrolled releases that can cause extensive air, water, groundwater or soil contamination that threatens the environment or the public health. Please note that New York has withheld public release of this database since January 2002.

1. The Site did not appear on the MOSF listing.
2. There are no sites within a 1/2-mile radius of the Site that appear on the MOSF listing.

### 6.2.8 Chemical Bulk Storage (CBS) Sites

Sites storing hazardous substances listed in 6 NYCRR Part 597 in aboveground tanks with capacities of 185 gallons or more and/or underground tanks of any size. It should be noted that New York has withheld public release of this database since January 2002.

1. The Site did not appear on the CBS listing.
2. There are two sites within 1/4-mile of the Site that appear on the CBS listing.

A)

US Postal Service Manhattan 201 11 <sup>th</sup> Avenue						
Located: 1109 feet to the west southwest of the Site						
Facility ID: 2-000384						
Tank #	Status	Content	Capacity (gallon)	Location	Installed Date	Closed Date
0001	In service	Ethylene Glycol	500	Aboveground	06/00	---
0002	In service	Ethylene Glycol	500	Aboveground	05/89	---

B)

USPS Morgan GMF 341 9 <sup>th</sup> Avenue						
Located: 1240 feet to the east of the Site						
Facility ID: 2-000273						
Tank #	Status	Content	Capacity (gallon)	Location	Installed Date	Closed Date
0001	In service	Ethylene Glycol	600	Aboveground	11/93	---

0002	In service	Methane Dichlorodfluoro	564	Underground	00/62	---
0003	In service	Methane Dichlorodfluoro	564	Underground	00/62	---
0004	In service	Methane Dichlorodfluoro	564	Underground	00/62	---
0005	In service	Methane Dichlorodfluoro	564	Underground	00/62	---

### 6.2.9 Petroleum Bulk Storage (PBS) Sites

These are sites with more than a 1,100-gallon capacity for storing petroleum products. It should be noted that New York has withheld public release of this database since January 2002.

1. The Site did not appear on the PBS listing.
2. Seventy-three sites are listed on the PBS database within 1/4-mile of the Site. Of these, forty-eight are listed as being within 1/4-mile of the Site and twenty-five are listed as being within 1/8-mile of the Site. No sites are noted to be contiguous with the Site.

### 6.2.10 Spill Logs

The New York State Department of Environmental Conservation routinely responds to petroleum product spill/discharge incidents so as to perform and/or supervise in their remediation. The agency currently maintains a log (Spill Log) of all reported incidents that have occurred within specific regions of the State of New York. Typical events that would be listed on the log include motor vehicle accidents involving the release of petroleum products; discharges of petroleum products from underground storage tanks; discharges of PCB contaminated oils from electrical transformers; and events involving the abandonment of petroleum products. A review of the NYSDEC Spill Log revealed the following information relevant to the environmental quality of the Site.

1. There is one spill incident listed in the NYSDEC Spill Log as having occurred on the Site. Said spill has been closed, indicating that the NYSDEC is not requiring any additional activities.

A)

505 West 27 <sup>th</sup> Street/ Central Iron	
Spill Number: 9109614	Spill Date: 12/10/1991
Cause of Spill: Tank overfill	Resource Affected: On Land
Meet Cleanup Standards: False	Material Spilled: Gasoline
Quantity Spilled: 10 gallons	Close Date: 12/15/2003
Remark: 2-550 gallon tanks/500 heating oil	

2. There are a significant number of spill incidents listed in the NYSDEC Spill Log as having occurred within 1/2-mile of the Site. Accordingly, the *approximate minimum search distance* (as defined by ASTM) was reduced to 1/4-mile in order to make the data *practically reviewable*. Fifty-seven spill incidents are listed in the NYSDEC Spill Log as having occurred within 1/4-mile of the Site [see *Appendix C*]. Review of these incidents has revealed that twenty-four are listed as having occurred between 1/4 to 1/8-mile, and thirty-three are listed as having occurred within 1/8-mile. There is one NYSDEC spill that has the potential to adversely impact the environmental quality of the Site.

A)

M&L West Side Auto Repair	
27 <sup>th</sup> Street/10 <sup>th</sup> Avenue	
Located: 123 feet to the east southeast	
Spill Number: 8302630	Spill Date: 06/10/86
Cause of Spill: Unknown	Resource Affected: Air
Meet Cleanup Standards: no	Material Spilled: Petroleum
Quantity Spilled: Unknown	Close Date: Not closed
Remark: Reassigned from DEC Chanda to DEC Vought. END DECRemark - 8302630 10/16/06 Reassign from Yau to Chanda (Chanda) 12/12/06-Vought-Spill re-do the cleanup. Will call owner back as soon as review is completed.(Yau) cleanup is complete. If the cleanup is incomplete, the owner might have to is underway. Found that DEC had a PIN job for this site. Unsure whether the 08/02/06: Owner called to request an update to the site.Told him that a review look into it and call him back with the exact location of the spill. (Yau) (around 2002) and had no idea where is the spill was. Told him that DEC will called to inquire about the spill. Stated thathe brought the property recently report (SIR) is expected to be due on 07/22/06. (Yau) 06/27/06: Owner spill letter to property owner through certified mail. A site investigation Re-assigned from Foley to Yau. (Yau) 06/22/06: Prepared and sent an old 9410209. 1/8/04 Reassigned from Tomasello to K Foley. 06/20/06: PURPOSES. 10/6/03 See also PIN 4169, spill #s 8605682, 8606807, 9410208, Start DECRemark - 8302630 09/25/95: PIN-4169 - ASSIGNED TO CHRIS FOR TRACKING	

The remaining spill incidents are not considered to have significantly impacted the environmental quality of the Site. This determination was made based on such factors as the local groundwater flow direction, the spill incident statuses, the quantities of materials spilled, the distances between the spill sources and the Site, and the resources affected.

### **6.3 City Environmental Record Review**

*New York City Department of Environmental Protection; New York City Fire Department; New York City Building Department [See Appendix F]*

#### **6.3.1 New York City Department of Environmental Protection**

The Bureau of Water Pollution Control and the Bureau of Sewers of the New York City Department of Environmental Protection has put forth the document, Rules and Regulations Relating to the Use of the Public Sewers, Including Sewer Surcharges, pursuant to Section 1403 of the New York City Charter and by Sections 683a4-1.0 through 683a4-19.0, 687-1.0 and 689-1.0 of the Administrative Code of the City of New York and in compliance with Section 1105 of the New York City Charter. This document covers such topics as the disposal of wastewater, stormwater, and groundwater, the materials and substances excluded from public sewers, the toxic substances accepted conditionally, the terms and conditions for the issuance of a permit, the removal, transportation, and disposition of scavenger wastes, and the imposition and computation of sewer surcharge. The New York City DEP was contacted regarding the Site. The following information was made available:

1. A Freedom of Information request was submitted for the Site, but no response has been received to date.

#### **6.3.2 New York City Fire Department**

The New York City Fire Department oftentimes maintains records of underground storage tanks and the storage of hazardous materials. The New York City Fire Department was contacted about the Site and provided the following information:

1. A Freedom of Information request was submitted for the Site, but no response has been received to date.

### 6.3.3 New York City Building Department

The New York City Building Department maintains records regarding permits issued for the construction of a building, renovations of the building, boiler specifications, and violations. The department also maintains a record of those lots with an "E" designation on the Zoning Maps of the Zoning Resolution of the City of New York for potential hazardous material contamination ("haz-mat E lots"), as determined by the NYCDEP. Lots with said designation may not be issued a building permit allowing: 1) any development; 2) an enlargement, extension or change of use involving residential or community facility use; or 3) and enlargement that disturbs the soil on said lot unless and until the Department is provided with a report from DEP stating that the environmental requirements for the lot have been met. The New York City Building Department was contacted about the Site and provided the following information:

1. The Site was listed with an "E" designation. All of the lots (25, 26, 27 & 44) were listed as 'E' designated.
2. The Site was listed as a Z9-Miscellaneous in the NYC Building Department database.
3. No Environmental Control Board (ECB) Violations were on file for the Site.
4. The following Certificates of Occupancy were on file for the Site.

Lot#	CO #	Issued Date	Issues of Concerns
44	13823	1928	Dairy and storage of 4 automobiles.
44	18535	1932	Dairy and storage of 5 automobiles. Cellar.
44	18588	1932	Dairy and storage of 5 automobiles. Cellar.
44	60678	1964	Fuel oil Permit # 138632.
27	N/A	N/A	N/A
26	76488	1976	Three story apartment.
25	76488	1976	Three story apartment.

5. The following New Building permits were on file for the Site.

Lot#	NB #	Issued Date	Issues of Concerns
44	345-27	1927	None
44	1034-93	1993	None



6. Several permits for gasoline tanks were on file for the Site.

Lot#	Permit number	Date
26	GT 81-34	1934
25	GT 81-34	1934

7. No other records of any environmental concerns were on file for the Site.

## 7 REVIEW OF HISTORIC DATA

### 7.1 City Directories

The City Directories are reverse telephone directories which include listings by address and telephone number. As such, it can be a valuable instrument in determining potential pollution sources and/or sensitive receptors in an area of study. Information contained on the directory includes the name, telephone number, land use, geographic location, wealth rating, street construction date and date of telephone service connection. This data can be interpreted so as to yield relevant information regarding past land uses which might have affected the environmental quality of the Site and/or the surrounding properties. Relevant listings for the Site (reviewed on a periodic interval) revealed the following information relevant to the environmental quality of the Site:

Address	Listing	Date Listed
505 West 27 <sup>th</sup> Street New York, New York	De Jos	1920
	Kuzmanovich Elia Immigrant Home	1927
	Not Listed	1931-1958
	Central Iron & Metal Co Inc	1963-2000
507 West 27 <sup>th</sup> Street New York, New York	Not Listed	1920
	Residential Listings	1923
	Not Listed	1931-1988
	Boulder Resources LTD	1993-200
509 West 27 <sup>th</sup> Street New York, New York	Not Listed	1920
	Morris AT & CO Metal Works	1927
	Not Listed	1931
	Empire Brick & Supply Co., Foster Walter, Potapow Michele,	1934
	ACT Trucking Co, Eastern Motor Dispatch	1938
	Sheilds & Sons Trucking	1942-1950
	G & G Displays	1947
	Clint Express Inc	1956-1968
	Residential Listings	1968-1988
511 West 27 <sup>th</sup> Street New York, New York	Garland Manufacturing Co, VF Gates, NY MGR Electric Conduits, Safety Armorite Conduit	1923
	Not Listed	1927-1931

Address (cont)	Listing (cont)	Date Listed (cont)
511 West 27 <sup>th</sup> Street New York, New York (cont)	Golden Sheldon, Chauf H, Miller Frank	1934
	Garvey L Contractor	1938
	Not Listed	1942-1956
	Residential Listings	1968-1978
	JAF Carting Corp, Manmaid	1983
	Lenny NYC	1988-1993
521 West 27 <sup>th</sup> Street New York, New York	Not Listed	1920-2000
523 West 27 <sup>th</sup> Street New York, New York	Not Listed	1920-2000

## 7.2 Sanborn Maps

The Sanborn Maps were created to inform fire fighters of potential dangers based on land use and building construction. Said maps were also used for fire insurance purposes. These maps are updated on a rotating basis. The maps were inspected to determine past uses of the Site and surrounding properties. The Sanborn Maps for the Site revealed the following information [See Appendix G].

Year	Site Historic Uses
1890, 1899	The Site appears to maintain several residential structures. The northwestern portion of the Site is depicted as a "Wood Yard".
1911	The Site appears to maintain several residential structures. The northwestern portion of the Site is depicted as maintaining a building labeled as Charity Organization Society and Laundry.
1930	The Site appears to maintain several residential structures. The northwestern portion of the Site is depicted as maintaining a building labeled as Charity Organization Society a "Wood Yard" and Laundry.
1950	The Site appears to maintain several residential structures. The northwestern portion of the Site is depicted as maintaining a building labeled as Auto. The southwest and northeastern portions of the Site are not depicted as maintaining structures. Overhead tracks are depicted along the eastern portion of the Site.
1976	The Site appears to maintain two residential structures. The northwestern portion of the Site is depicted as maintaining a building labeled as a Motor Freight Station. The southwest and northeastern portions of the Site are not depicted as maintaining structures. The north-central portion of the Site is depicted as maintaining an automobile repair shop. Overhead tracks are depicted along the eastern portion of the Site. Two structures, one labeled as storage and the other as office, are depicted beneath the elevated track on the southwestern portion of the Site.
1979, 1980, 1982	The Site is depicted in a similar manner as in the 1976 map. However, an additional building labeled as an automobile garage is depicted on the southeastern portion of the Site.
1982, 1985, 1988,	The northern and northeastern portions of the Site are depicted as maintaining a scrap yard. A building

1991, 1992, 1993, 1994, 1995 & 1996	labeled as a garage is depicted on the southwestern portion of the Site. Overhead tracks are depicted along the eastern portion of the Site. Three structures, one labeled as storage, one as an office and the third as an automobile garage are depicted beneath the elevated track on the southwestern portion of the Site.
--	--

Direction	1890, 1899 - Surrounding Property Uses
North	West 28 <sup>th</sup> Street is visible. The properties appear to maintain residential dwellings.
East	The properties appear to maintain residential dwellings.
South	West 27 <sup>th</sup> Street is visible. The properties beyond are not depicted in the maps.
West	The properties appear to maintain a shop and residential dwellings.

Direction	1911- Surrounding Property Uses
North	West 28 <sup>th</sup> Street is visible. The properties beyond are not depicted in the maps.
East	The properties appear to maintain residential dwellings.
South	West 27 <sup>th</sup> Street is visible. The properties beyond are depicted as a tooth powder factory and piano finishing.
West	The properties appear to maintain residential dwellings with stores on the first floor.

Direction	1930- Surrounding Property Uses
North	West 28 <sup>th</sup> Street is visible. The properties beyond are not depicted in the maps.
East	The properties appear to maintain residential dwellings.
South	West 27 <sup>th</sup> Street is visible. The properties beyond are depicted as vacant, one damaged by fire and steam laundry.
West	The properties appear to maintain residential dwellings.

Direction	1950 - Surrounding Property Uses
North	West 28 <sup>th</sup> Street is visible. The properties beyond are not depicted in the maps.
East	The properties appear to maintain residential dwellings and stores.
South	West 27 <sup>th</sup> Street is visible. The properties beyond are depicted as a depot and steam laundry.
West	The properties appear to maintain residential dwellings.

Direction	1976, 1979, 1980, 1982, 1985 - Surrounding Property Uses
North	West 28 <sup>th</sup> Street is visible. The properties beyond are not depicted in the maps.
East	The properties appear to maintain residential dwellings, stores and taxi repairs.
South	West 27 <sup>th</sup> Street is visible. The properties beyond are depicted as a paper warehouse, waste paper and steam laundry.
West	The properties appear to maintain residential dwellings and a flat.

Direction	1988 - Surrounding Property Uses
North	West 28 <sup>th</sup> Street is visible. The properties beyond are not depicted in the maps.
East	The properties appear to maintain residential dwellings, stores and taxi repairs.
South	West 27 <sup>th</sup> Street is visible. The properties beyond are depicted as a paper warehouse, waste paper and laundry.
West	The properties appear to maintain residential dwellings and a flat.

Direction	1991 - Surrounding Property Uses
North	West 28 <sup>th</sup> Street is visible. The properties beyond are not depicted in the maps.
East	The properties appear to maintain residential dwellings, stores and automobile repairs.
South	West 27 <sup>th</sup> Street is visible. The properties beyond are depicted as a paper warehouse, waste paper and laundry.
West	The properties appear to maintain residential dwellings and a flat.

Direction	1992, 1993, 1994, 1995 & 1996 - Surrounding Property Uses
North	West 28 <sup>th</sup> Street is visible. The properties beyond are not depicted in the maps.
East	The properties appear to maintain residential dwellings, stores, automobile repairs and a gasoline filling station.
South	West 27 <sup>th</sup> Street is visible. The properties beyond are depicted as a paper warehouse, automobile repair and a warehouse.
West	The properties appear to maintain residential dwellings and a flat.

## **8 EVALUATION OF DATA AND RECOMENDATIONS**

---

An evaluation of the data obtained under the scope of this Phase I ESA was performed to identify recognized environmental conditions associated with the Site. The evaluation included a review of the reasonably ascertainable data collected under the scope of this assessment. The evaluation considered the significance of data gaps that were inherent to site-specific sources of information consulted for this Phase I ESA. The absence of certain information can affect the ability of the environmental professional to identify recognized environmental conditions; and is considered a data gap. A data gap is the lack of or inability to obtain information required by the All Appropriate Inquiries ruling despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site visit, user-provided information, available sources of historic information and interviews.

### **8.1 Data Gaps**

1. Responses to the Freedom of Information requests submitted to the United States Environmental Protection Agency, the New York State Department of Environmental Conservation, the New York City Department of Environmental Protection, and the New York City Bureau of Fire Prevention has not been received to date. In addition, no historical sources of information consulted in this Phase I ESA provided land uses prior to pre-development of the Site. Furthermore, the chain-of-title records were not provided at the time of this assessment. This absence of this information represents a data gap.

### **8.2 Recommended Phase I ESA Activities**

1. Responses to the Freedom of Information requests submitted to the United States Environmental Protection Agency, the New York State Department of Environmental Conservation, the New York City Department of Environmental Protection, and the New York City Bureau of Fire Prevention has not been received to date. ASTM establishes that a diligent Phase I Environmental Site Assessment must consider all information obtained from a public agency within twenty days of receipt of a Freedom of Information request. Accordingly, information obtained from the above-mentioned agencies before the twenty day period has passed will be addressed in an addendum to this assessment.

### 8.3 Recommended Phase II ESA Activities

1. The on-site inspection and historic research revealed that the Site has historically maintained several residential structures, laundry cleaning, metal works, manufacturing, motor freight storage, automobile repair and a scrap yard. The former on-site operations have created the potential for the Site to have been polluted by organic and/or inorganic contaminants. This potential represents a *recognized environmental condition*. Furthermore, based on these historic uses, the New York City Department of Planning has listed the site with an E-designation for hazardous materials as part of rezoning. The designation was determined based on a preliminary investigation of the site. The results of the investigation indicated that the potential exists for hazardous materials to be present on the site. Lots with E-Designations may not be issued a building permit allowing: 1) any development; 2) an enlargement, extension or change of use involving residential or community facility use; or 3) any enlargement that disturbs the soil on the lot until the New York City Building Department is provided with a report from NYCDEP stating that the environmental E-Designation requirements for the lot have been met. Accordingly, a limited subsurface investigation is recommended to determine if the environmental quality of the Site has been adversely impacted by former land use applications. The results of the subsurface investigation should be submitted to the NYCDEP along with the results of this Phase I ESA Report and any development site plans.
2. The on-site inspection and a review of New York City building department records revealed the presence of at least four underground storage tanks. In addition, the New York City Building Department had issued a gasoline tank permit in 1934 (GT 81-34). According to the current owner, two abandoned USTs (observed on the northeastern portion of the Site) had a reported capacity of 550 gallons each, and were formerly utilized for the storage of diesel fuel. Further, a fill port (labeled as gasoline) was observed in the sidewalk, immediately north of these diesel USTs. The two inactive USTs maintained on the southwestern portion of the Site (with an unknown capacity) were formerly utilized for the storage of gasoline. A fill port labeled as gasoline was observed in the sidewalk immediately to the south of these abandoned gasoline USTs. No documentation was available regarding the proper decommissioning or any tightness testing associated with these USTs. This lack of documentation represent a *recognized environmental condition*. Accordingly, it is recommended that a ground penetration radar survey be conducted to determine the precise location of the USTs. Further, it is recommended that a limited subsurface investigation be conducted to determine if the Site has been impacted from the aforementioned abandoned USTs.
3. Several off-site confirmed or potential contamination sources were identified to exist within the ASTM search radius. However, according to the USEPA Small Business Liability Protection Act indicates that "a person that owns real property that is contiguous to or otherwise similarly situated with respect to,

and that is or may be contaminated by a release or threatened release of a hazardous substance from, real property that is not owned by that person shall not be considered to be an owner or operator of a vessel or facility under paragraph (1) or (2) of subsection (a) solely by reason of the contamination if— “(i) the person did not cause, contribute, or consent to the release or threatened release; “(ii) the person is not— “(I) potentially liable, or affiliated with any other person that is potentially liable, for response costs at a facility through any direct or indirect familial relationship or any contractual, corporate, or financial relationship (other than a contractual, corporate, or financial relationship that is created by a contract for the sale of goods or services); or “(II) the result of a reorganization of a business entity that was potentially liable; “the person takes reasonable steps to “(I) stop any continuing release; “(II) prevent any threatened future release; and prevent or limit human, environmental, or natural resource exposure to any hazardous substance released on or from property owned by that person; “(iv) the person provides full cooperation, assistance, and access to persons that are authorized to conduct response actions or natural resource restoration at the vessel or facility from which there has been a release or threatened release (including the cooperation and access necessary for the installation, integrity, operation, and maintenance of any complete or partial response action or natural resource restoration at the vessel or facility); “(v) the person— “(I) is in compliance with any land use restrictions established or relied on in connection with the response action at the facility; and integrity of any institutional control employed in “(II) does not impede the effectiveness or connection with a response action; “(vi) the person is in compliance with any request for information or administrative subpoena issued by the President under this Act; “(vii) the person provides all legally required notices with respect to the discovery or release of any hazardous substances at the facility; and “at the time at which the person acquired the property, the person— “(I) conducted all appropriate inquiry within the meaning of section 101(35)(B) with respect to the property; and “(II) did not know or have reason to know that the property was or could be contaminated by a release or threatened release of one or more hazardous substances from other real property not owned or operated by the person.” Accordingly, additional Phase II activities are recommended to identify any potential contamination on the Site that may be acting as a contributing source to the underlying groundwater contamination; and determine what, if any, impacts to groundwater quality on the Site have occurred resulting from the above referenced off-site sources.



#### **8.4 Recommended Remedial Activities**

1. The diesel and gasoline UST present on the Site should be properly abandoned in accordance with the applicable PBS regulations.
2. Due to the historic structures maintained on the Site, undocumented fuel oil USTs and/or urban fill material may be present. These undocumented fuel oil USTs and/or urban fill material would require specialized disposal under applicable regulations. Urban fill found throughout the New York metropolitan area is considered a regulated waste in the State of New York and is therefore required to be managed in accordance with the State Solid Waste Regulations. This would require that all impacted soil be excavated, handled, transported and disposed of in accordance with a Waste Material Handling Plan. Furthermore, a UST removal contingency plan should be prepared prior to any excavation of the Site.

#### **8.5 Recommended Compliance Activities**

1. Should the buildings be renovated or demolished in the future, full lead and asbestos surveys should be conducted prior to the initiation of any work.
2. All debris observed on the Site should be removed from the premises and disposed of in accordance with the New York State solid waste regulations (6 NYCRR Part 360).
3. Documentation regarding the proper disposal of regulated wastes should be maintained on-site for periodic review.
4. The petrochemical staining observed on the Site should be properly cleaned.

## 9 CONCLUSIONS

---

This report has been prepared for the sole benefit of 699-44 Corp.. The report may not be relied upon by any other person or entity without the express written consent of Impact Environmental and 699-44 Corp.. Where applicable, the assessment included a thorough visual inspection of the property, the examination of reasonably ascertainable records concerning the current and prior uses of the Site, and interviews with the current owners and/or operators of the Site. The findings presented in this site assessment are based on data obtained under the scope of this investigation. The conclusions represent the professional judgment of qualified Impact Environmental staff members using available information.

Impact Environmental has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 505 West 27th Street, New York, New York, the Site. Any exceptions to, or deletions from, this practice are described in Section 2.2 of this report. This assessment has revealed evidence of recognized environmental conditions associated with the Site. Accordingly, additional activities are recommended to define and/or enhance the environmental quality of the Site (see Recommended Phase II ESA Activities in Section 8.3). In addition, the recommended Phase I ESA, compliance, and remedial activities should be performed as outlined in Section 8.2, 8.4, and 8.5.

I certify that this assessment was performed under my direction and supervision, that I have reviewed and approved the report, and that the methods and procedures employed in the development of the report conform to industry standards. I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR part 312.

### IMPACT ENVIRONMENTAL

---

Kevin Kleaka  
*Environmental Professional*

---

James Cressy  
*Environmental Scientist*

## 10 REFERENCES

---

1. The Basic Guide to Environmental Inspections. Environmental Assessment Association, undated.
2. EPA's Map of Radon Zones, New York. Air and Radiation Division, United States Environmental Protection Agency, September, 1993.
3. Feasibility Study For Use of the Brooklyn Queens Aquifer as an Additional Potable Water Supply. Malcolm Pirnie, Inc., White Plains, New York, March 1999.
4. Long Island Region Water Resources Management Study. Division of Water, New York State Department of Environmental Conservation, March, 1988.
5. Sanborn Fire Insurance Maps From the Sanborn Map Company Archives. Us Library of Congress.
6. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process: ASTM Designation E 1527 - 05. The American Society for Testing and Materials, West Conshohocken, Pennsylvania, November 2006.
7. E 2091 Guide for Use of Activity and Use Limitations, Including Institutional and Engineering Controls  
Federal Statutes: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
(“CERCLA” or “Superfund”), as amended by Superfund Amendments and Reauthorization
8. Act of 1986 (“SARA”) and Small Business Liability Relief and Brownfields Revitalization Act of 2002  
(“Brownfields Amendments”), 42 U.S.C. §§9601 *et seq.*
9. Emergency Planning and Community Right-To-Know Act of 1986 (“EPCRA”), 42 U.S.C. §§11001 *et seq.*
10. Freedom of Information Act, 5 U.S.C. §552, as amended by Public Law No. 104-231, 110 Stat. 3048
11. Resource Conservation and Recovery Act as amended (“RCRA”), 42 U.S.C §6901 *et seq.*
12. “All Appropriate Inquiry” Final Rule, 40 C.F.R. Part 312
13. Chapter 1 EPA, Subchapter J-Superfund, Emergency Planning, and Community Right-To-Know Programs, 40 C.F.R Parts 300-399
14. National Oil and Hazardous Substances Pollution Contingency Plan, 40 C.F.R. Part 300
15. OSHA Hazard Communication Regulation, 29 C.F.R. §1910.1200

## **11 DISCLAIMER**

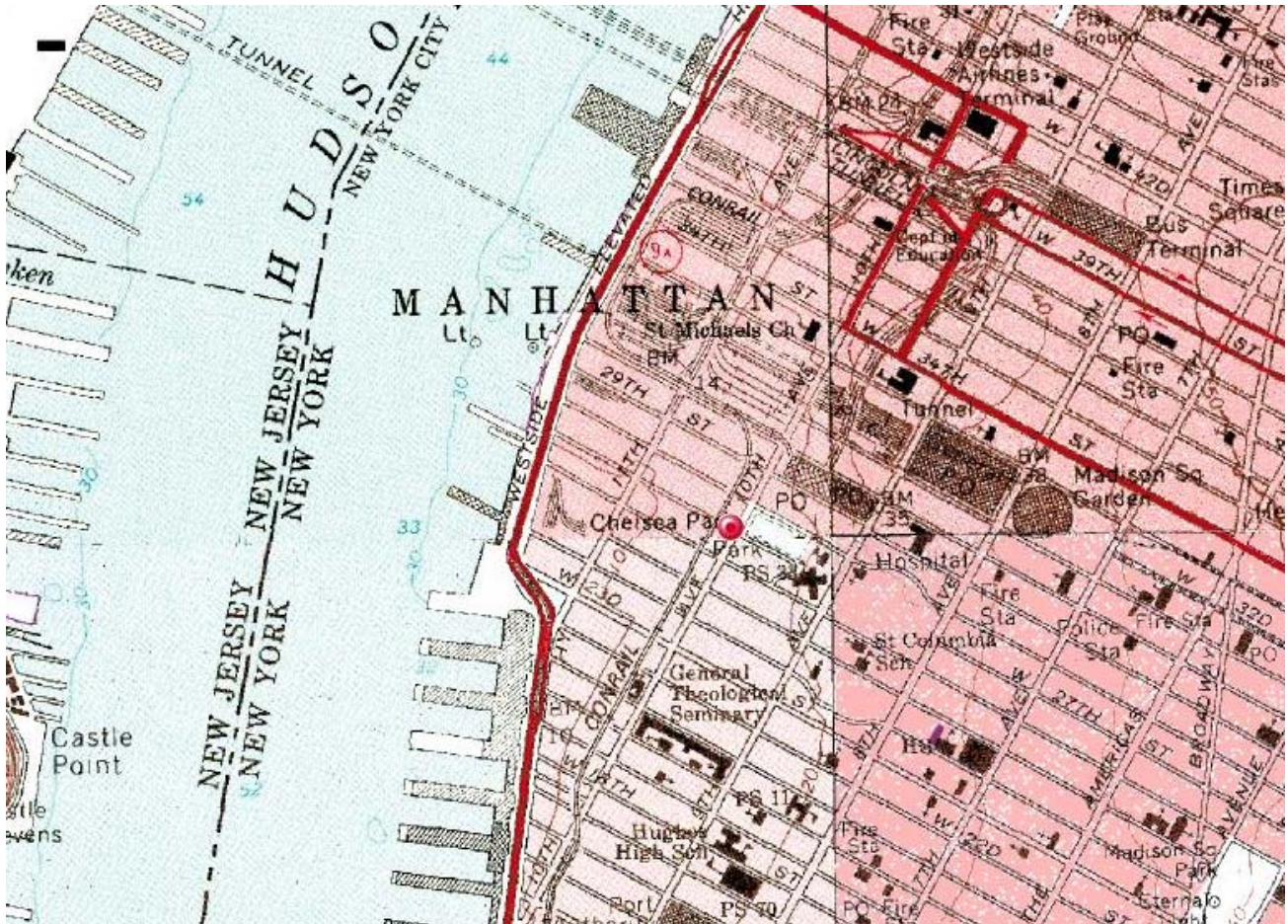
---

The purpose of this investigation was to identify potential sources of contamination at the Site, and to satisfy the all appropriate inquiry standard set forth by CERCLA liability and establishing innocent landowner, contiguous property owner, or bona fide prospective purchaser (also referred to as "land owner liability protections" or "LLPs") and the Brownfield Revitalization and Brownfield Act. The findings and conclusions set forth in this report are based upon information that was available to Impact Environmental during its inspection of the property. If new information becomes available concerning the property after this date, or if the property is used in the future in a manner other than that which is identified in this report, the findings and conclusions contained herein may have to be modified. Additionally, while this investigation was performed in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry, Impact Environmental can not guarantee that the property is completely free of hazardous substances or other materials or conditions that could subject the Client to potential liability. The presence or absence of any such condition can only be confirmed through the collection and analysis of soil and groundwater samples, which was beyond the scope of this investigation.

**Impact Environmental**  
Environmental Site Assessment

Plate 1: Site Topographic Map

Site Topographic Map  
New York, New York



CONTOUR INTERVAL 10 FEET

DASHED LINES REPRESENT 5 - FOOT CONTOURS

DATUM IS MEAN SEA LEVEL

DEPTH CURVES AND SOUNDINGS IN FEET - DATUM IS MEAN LOW WATER

**Impact Environmental**  
Environmental Site Assessment

Plate 2: Site Location Map

Site Location Map  
505 W. 27th Street  
*New York, New York*





**Impact Environmental**  
Environmental Site Assessment

Appendices

**Impact Environmental**  
Environmental Site Assessment

Appendix A  
Site Photos

## PHOTO LOG

**Photo 1:** *View of the northern portion of the Site.*

**Photo 2:** *View of the gasoline fill port observed in the sidewalk on the northern portion of the Site.*

**Photo 3:** *View of the two buildings located on the southeastern portion of the Site.*

**Photo 4:** *View of area where the two inactive diesel USTs are located.*

**Photo 5:** *View of the southwestern portion of the Site where the two inactive gasoline USTs are located.*

**Photo 6:** *View of the former gasoline pump island located on the southwestern portion of the Site.*

**Photo 7:** *View of the southeastern portion of the scrap yard.*

**Photo 8:** *Additional view of the southeastern portion of the scrap yard.*

**Photo 9:** *View of the central portion of the scrap yard.*

**Photo 10:** *View of the central portion of the scrap yard.*

# Photographic Log

Photograph #1



Photograph #2



Photograph #3



Photograph #4



Photograph #5



Photograph #6



Note: These photographs have not been altered or retouched in any way unless specifically stated otherwise

# Photographic Log

Photograph #7



Photograph #8



Photograph #9



Photograph #10



Note: These photographs have not been altered or retouched in any way unless specifically stated otherwise

## **APPENDIX B**

---

### IMPACT ENVIRONMENTAL PHASE II ESA

# **Phase II Environmental Site Assessment**

## **Limited Subsurface Investigation**

***June 22, 2007***

*conducted at:*

**505 West 27th Street**

**New York, New York**

**Manhattan Tax Map Designation: Block 699; Lots 25, 26, 27 & 44**

*prepared for:*

**699-44 Corp.**

**505 West 27th Street**

**New York, NY**

*report user:*

**699-44 Corp.**

**505 West 27th Street**

**New York, NY**

**IE Project Number: 07-124.1**

**IMPACT ENVIRONMENTAL**



## TABLE OF CONTENTS

Section	Topic	Page
<b>1</b>	<b>Purpose &amp; Scope</b>	<b>1</b>
<b>2</b>	<b>Site Description</b>	<b>2</b>
2.1	Topography	2
2.2	Land Use	2
2.3	Recognized Environmental Conditions	2
<b>3</b>	<b>Survey, Sampling and Analysis Plan</b>	<b>5</b>
3.1	Remote Sensing Survey	5
3.1.1	GPR Procedures	5
3.2	Subsurface Soil Sampling	6
3.2.1	Subsurface Probe Installation	7
3.3	Field Headspace Analysis	8
3.3.1	Headspace Analysis Procedure	8
3.4	Sample Characterization	8
3.5	Groundwater Sampling	9
3.5.1	Temporary Well Point Sampling Procedure	9
3.6	Laboratory Sample Location and Frequency	10
<b>4</b>	<b>Laboratory Analysis</b>	<b>11</b>
4.1	Analytical Test Methods	11
4.2	Analytical Results	12
<b>5</b>	<b>Evaluation of Results</b>	<b>13</b>
<b>6</b>	<b>Conclusions</b>	<b>15</b>



## PLATES

- Plate 1:** Project Location Map, *New York, New York*  
**Plate 2:** Sample Acquisition Plan, *New York, New York*

## TABLES

- Table 1:** Field Headspace Analysis Results, *New York, New York*  
**Table 2:** Detected Analytes in Soil, *New York, New York*  
**Table 3:** Detected Analytes in Groundwater, *New York, New York*

## FIGURE

- Figure 1:** Geoprobe Operating System

## APPENDICES

- Appendix A:** Soil Probe Logs  
**Appendix B:** Quality Assurance and Quality Control Procedures (QA/QC)  
**Appendix C:** Laboratory Report, JMS Environmental Services, Inc.

## DISTRIBUTION LIST

<i>Report Holder</i>	<i>Number of Reports Issued</i>
699-44 Corp.	2
Impact Environmental Corporate Records	1

**This document is not to be reproduced in any way. The document is protected by the copyright laws of the United States of America.**

## 1 Purpose & Scope

This Phase II Environmental Site Assessment (ESA) was conducted to define what, if any, contaminants have impacted the environmental quality of the property located at 505 West 27th Street, New York, New York, herein identified as the Site. The scope of this investigation was based on the recommendations presented in the Phase I ESA report prepared by Impact Environmental, dated June 15, 2007. Said assessment identified issues requiring supplemental data to further define the environmental quality of the Site.

The investigative protocols proposed for this assessment were based, in part, upon the following documents: 1) the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) #4046, Determination of Soil Cleanup Objectives; 2) the New York State Department of Environmental Conservation, Technical Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Limitations; 3) the New York State Department of Environmental Conservation, Sampling Guidelines and Protocols, Technical Background and Quality Control Assurance for the New York State Department of Environmental Conservation Spill Response Program, dated September 1992; and 4) the New York State Department of Environmental Conservation, Division of Environmental Remediation, Draft DER-10 Technical Guidance For Site Investigation and Remediation, dated December 25, 2002. The activities performed under the scope of this investigation have been summarized in this report in the following sections.

- **Site Description**
- **Survey, Sampling and Analysis Plan**
- **Laboratory Analysis**
- **Evaluation of Results**
- **Conclusions**

Presented herein are the results of the Phase II Environmental Site Assessment conducted by Impact Environmental on the Site [see **Plate 1:** Project Location Map, *New York, New York*].

## 2 Site Description

All of the information presented in this section of the report was compiled during the performance of the Phase I ESA.

### 2.1 Topography

The areal extent of the Site is approximately 34,450 square feet. The Site contains three single-story, masonry buildings with an approximate footprint of 1,200 square feet. The surface area of the Site consists of asphalt and concrete areas, concrete walkways and exposed soils. The Site exhibits low topographic relief (less than three percent slopes).

### 2.2 Land Use

The Site lies within New York City commercial zoning district. The interior spaces of the existing buildings were divided into office space and storage space. The office spaces were utilized for general administrative purposes. The storage space was utilized for the storage of files and materials associated with said offices. The Site is currently utilized as a scrap metal yard.

### 2.3 Recognized Environmental Conditions

The on-site inspection and historic research revealed that the Site has historically maintained several residential structures, laundry cleaning, metal works, manufacturing, motor freight storage, automobile repair and a scrap yard. The former on-site operations have created the potential for the Site to have been polluted by organic and/or inorganic contaminants. This potential represents a *recognized environmental condition*. Furthermore, based on these historic uses, the New York City Department of Planning has listed the site with an E-designation for hazardous materials as part of rezoning. The designation was determined based on a preliminary investigation of the site. The results of the investigation indicated that the potential exists for hazardous materials to be present on the site. Lots with E-Designations may not be issued a building permit allowing: 1) any development; 2) an enlargement, extension or change of use involving residential or community facility use; or 3) any enlargement that disturbs the soil on the lot until the New York City Building Department is provided with a report from NYCDEP stating that the environmental E-Designation requirements for the lot have been met. Accordingly, a limited subsurface investigation was recommended to determine if the environmental

quality of the Site has been adversely impacted by former land use applications. The results of the subsurface investigation should be submitted to the NYCDEP along with the results of this Phase I ESA Report and any development site plans.

The on-site inspection and a review of New York City building department records revealed the presence of at least four underground storage tanks. In addition, the New York City Building Department had issued a gasoline tank permit in 1934 (GT 81-34). According to the current owner, two abandoned USTs (observed on the northeastern portion of the Site) had a reported capacity of 550 gallons each, and were formerly utilized for the storage of diesel fuel. Further, a fill port (labeled as gasoline) was observed in the sidewalk, immediately north of these diesel USTs. The two inactive USTs maintained on the southwestern portion of the Site (with an unknown capacity) were formerly utilized for the storage of gasoline. A fill port labeled as gasoline was observed in the sidewalk immediately to the south of these abandoned gasoline USTs. No documentation was available regarding the proper decommissioning or any tightness testing associated with these USTs. This lack of documentation represent a *recognized environmental condition*. Accordingly, it is recommended that a ground penetration radar survey be conducted to determine the precise location of the USTs. Further, it was recommended that a limited subsurface investigation be conducted to determine if the Site has been impacted from the aforementioned abandoned USTs.

Several off-site confirmed or potential contamination sources were identified to exist within the ASTM search radius. According to the USEPA Small Business Liability Protection Act "a person that owns real property that is contiguous to or otherwise similarly situated with respect to, and that is or may be contaminated by a release or threatened release of a hazardous substance from, real property that is not owned by that person shall not be considered to be an owner or operator of a vessel or facility under paragraph (1) or (2) of subsection (a) solely by reason of the contamination if— "(i) the person did not cause, contribute, or consent to the release or threatened release; "(ii) the person is not— "(I) potentially liable, or affiliated with any other person that is potentially liable, for response costs at a facility through any direct or indirect familial relationship or any contractual, corporate, or financial relationship (other than a contractual, corporate, or financial relationship that is created by a contract for the sale of goods or services); or "(II) the result of a reorganization of a business entity that was potentially liable; "the person takes reasonable steps to "(I) stop any continuing release; "(II) prevent any threatened future release; and prevent or limit human, environmental, or natural resource exposure to any hazardous substance released on or from property owned by that person; "(iv) the person provides full cooperation, assistance, and access to persons that are authorized to conduct response actions or natural resource restoration at the vessel or facility from which there has been a release or threatened release (including the cooperation and access necessary for the installation, integrity, operation, and maintenance of any complete or partial response action or natural resource restoration at the vessel or facility); "(v) the

person— “(I) is in compliance with any land use restrictions established or relied on in connection with the response action at the facility; and integrity of any institutional control employed in “(II) does not impede the effectiveness or connection with a response action; “(vi) the person is in compliance with any request for information or administrative subpoena issued by the President under this Act; “(vii) the person provides all legally required notices with respect to the discovery or release of any hazardous substances at the facility; and “at the time at which the person acquired the property, the person— “(I) conducted all appropriate inquiry within the meaning of section 101(35)(B) with respect to the property; and “(II) did not know or have reason to know that the property was or could be contaminated by a release or threatened release of one or more hazardous substances from other real property not owned or operated by the person.”

Additional Phase II activities were recommended to identify any potential contamination on the Site that may be acting as a contributing source to the underlying groundwater contamination; and determine what, if any, impacts to groundwater quality on the Site have occurred resulting from the above referenced off-site sources.

### 3 Survey, Sampling and Analysis Plan

A survey, sampling and analysis program was developed to address the recognized environmental conditions identified in the Phase I ESA. The plan included: 1) a remote sensing survey to identify the presence and orientation of the existing diesel and gasoline UST(s); 2) an investigation to determine what, if any, contaminants were released to the subsurface soil and/or groundwater of the Site as a result of former industrial on-site activities. All sampling locations can be referenced with **Plate 2: Sample Acquisition Plan, New York, New York.**

#### 3.1 Remote Sensing Survey

A remote sensing survey was performed over portions of the planimetric surface of the Site utilizing a GSSI model SIR-2 ground penetrating radar (GPR) system equipped with a 400MHz antenna. The survey was performed to: 1) to determine the orientation and precise location of the inactive diesel and gasoline UST(s) present on the Site.

An analysis of the data collected for the survey identified the presence of four significant subsurface anomalies on the Site. These anomalies were interpreted to represent underground storage tanks. Two were identified on the northeastern portion of the Site and two were identified on the southwestern portion of the Site. Fill and vent pipes were observed in proximity to these USTs. Accordingly, the suspected USTs were investigated as potential points of likely contaminant sources as part of this assessment

##### 3.1.1 GPR Procedures

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 50 KHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the subsurface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit represented as color graphic images for interpolation. This system is capable of transmitting electromagnetic energy in the frequency range of 16MHz to 2000MHz.

A qualified Impact Environmental technician specified a coordinate system on the planimetric surface of the site to map any subsurface dielectric anomalies detected on the premises. The operator used knowledge of the subsurface soil composition to calibrate the SIR-2 system to site-specific conditions. Factor settings such as range, gain, number of gain points, and scans per unit, were modified to yield the most accurate data to describe the subsurface conditions.

Upon finding a dielectric anomaly, a more spatially specific coordinate system was designed over the area to determine its size, shape and orientation. The data collected during the survey was reviewed by the operator and compared against past experience, technical judgment and prior site knowledge to classify the anomalies

### 3.2 Subsurface Soil Sampling

From May 31, 2007 to June 1, 2007, Impact Environmental installed a total of fifteen soil probes, identified as SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12, SP-13, SP-14 and SP-15 on the Site as part of this investigation.

Soil probes SP-1, SP-2, SP-3, SP-14 and SP-15 were installed proximal to the detected anomalies interpreted to represent USTs. Soil samples were acquired from said probes at depth intervals ranging from grade to 15 feet below existing grade (BEG). These samples were secured to provide data that would indicate if the former USTs had actuated a release of product to the subsurface soil of the Site.

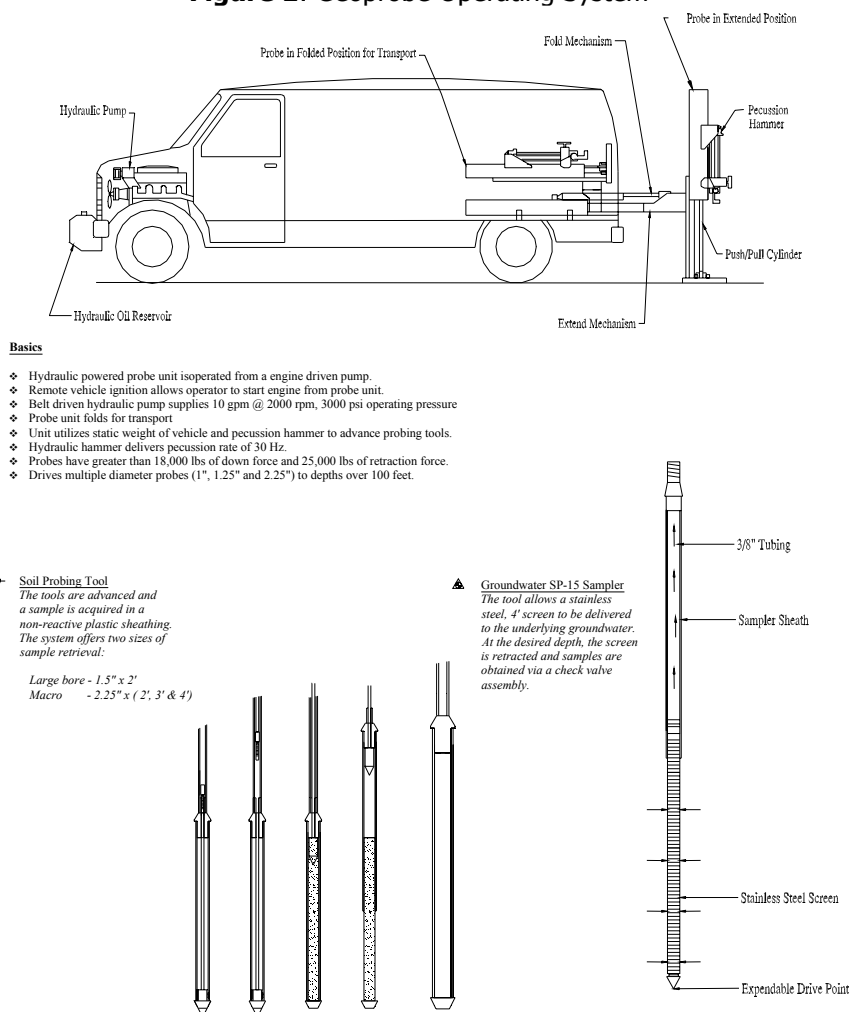
Soil probes SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12 and SP-13 were installed in a grid pattern on the Site. These soil samples were acquired from said probes at depth intervals ranging from grade to 15 feet below existing grade (BEG). These samples were secured to provide data that would indicate if the on-site activities have adversely impacted the environmental quality of the Site.

Several areas of refusal were encountered while attempting to install the soil probes. Specifically, refusal was encountered to the west/northwest and southwest of SP-5 and to the north of SP-3. See the sample acquisition map for details.

### 3.2.1 Subsurface Probe Installation

Subsurface probes were sited using a Geoprobe hydraulically powered probing tool (see Figure 1: Geoprobe Operating System). Mechanized, vehicle mounted probe systems apply both static force and hydraulically powered percussion hammers for tool placement (static down forces up to 18,000 pounds combined with percussion hammers of eight horsepower continuous output). Recovery of large sample volumes was facilitated with a probe-driven sampler. The probe-driven sampler consisted of a hollow probe that opened via a remote control mechanism at the selected sampling depth in the soil profile to allow soil to enter as it was advanced. Discrete media samples were secured at the desired depths and were contained within a non-reactive transparent plastic sleeve that lined the hollow probe. The plastic sleeves were removed for subsequent inspection and sample aliquot acquisition.

**Figure 1: Geoprobe Operating System**





### 3.3 Field Headspace Analysis

Headspace analysis was performed on each subsurface soil sample acquired from probes SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12, SP13, SP-14 and SP-15 to provide precursory data regarding contamination. Results of the analysis were used to adjust the sample and analysis program to yield the most accurate and representative results. The results of the field analysis are presented in **Table 1**: Field Headspace Analysis Results, *New York, New York*.

#### 3.3.1 Headspace Analysis Procedure

Headspace analysis was performed on each of the acquired samples utilizing a portable photo ionization detection meter to measure what, if any, hydrocarbon concentrations were present in isolated portions of the secured samples. Headspace analysis was conducted by partially filling a wide-mouth glass container with sample aliquot and sealing the top with aluminum foil, thereby creating a void. This void is referred to as the sample headspace.

To facilitate the detection of any hydrocarbons contained within the head space, the container was agitated for a period of thirty (30) seconds. The probe of the vapor analyzer was then injected through the foil into the headspace to measure the hydrocarbon concentrations present. A Photovac Micro-Tip, photo ionization detection meter (PID) was the organic vapor analyzer selected for the head space analysis. A PID utilizes the principle of photo ionization for detection and measurement of hydrocarbon compounds. A PID does not respond to all compounds similarly; rather, each compound has its own response factor relative to its calibration. For this investigation, the PID was calibrated to isobutylene. Hydrocarbon relative response factors for a PID calibrated to isobutylene are published by the manufacturer.

### 3.4 Sample Characterization

A visual inspection of all samples recovered during the installation of each of the soil probes was conducted to identify any gross signs of chemical contamination and to classify the sample media. Color classifications were made in accordance with the Munsell Classification System. Gradation classifications were made in accordance with the Unified Soil Classification System.

In general, the samples obtained from soil probes SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12, SP13, SP-14 and SP-15 were found to consist of reddish brown fine sand with

mudstone. Minor chemical odors and staining were observed in soil samples SP-3, SP-4, SP-6, SP-9, SP-11, SP-13, SP-14 and SP-15. Fill material was observed from said probes ranging from grade to approximately five feet BEG.

### 3.5 Groundwater Sampling

From May 31, 2007 to June 1, 2007, Impact Environmental installed five groundwater probes, identified as GWSP-1 through GWSP-5, on the Site as part of this investigation. Regional groundwater flow direction in the area of the Site is anticipated to flow in a westerly direction. The acquisitions of the groundwater samples were distributed in a grid pattern (Site conditions permitting) to conform to any potential groundwater flow direction. Groundwater was encountered at approximately eight to twelve feet BEG. One groundwater sample was secured from each probe. These samples were secured to provide data that would indicate if the on-site industrial activities have impacted the groundwater quality of the Site.

#### *3.5.1 Temporary Well Point Sampling Procedure*

The groundwater sampling system used was the Geoprobe Screen Point 15, which is designed to accurately collect grab samples of groundwater. The Screen Point 15 uses a screen with a standard slot size of 0.004 inches that is sealed inside a 1.5-inch ID alloy steel sheath as it is driven to depth. The screen is sealed inside the sheath with Neoprene O-rings that prevent infiltration of formation fluids until the desired depth is attained. When the screen has been driven to the depth of interest in the formation, extension rods are used to hold the screen in position as the driving rods are retracted approximately 4 feet. The 4-foot long sampler sheath forms a seal above the screen as it is retracted. A total of 41.5 inches of slotted screen is placed into contact with the formation. The Screen Point 15 groundwater sampler has a total boring diameter of 1.5 inches, the outside diameter of the screen is 1.0 inch. This provides for a maximum of 0.25 inches between the screen and the natural formation as the sampler sheath is retracted. These conditions approach the ideal for natural formation development, which can be conducted when lower turbidity samples are required.

Each groundwater sample was collected from the sampler utilizing 3/8 inch diameter disposable tubing equipped with a bottom check valve. The tubing extended from the surface down to the sampler. The tubing was oscillated until the process had achieved proper development. The groundwater was then containerized into the appropriate sample vessels for subsequent laboratory analysis.

### 3.6 Laboratory Sample Location and Frequency

The samples secured from soil probes SP-1 through SP-15 were subjected to headspace analysis. The headspace analysis detected concentrations of hydrocarbons within all of the soil samples (except SP-10). Accordingly, one sample that exhibited the highest headspace analysis result from each probe was selected for laboratory analysis (except SP-10 from which the deepest sample was analyzed due to no detected hydrocarbons within the sample).

The selected samples were labeled for identification purposes as 07-124.1 SP-1, 07-124.1 SP-2, 07-124.1 SP-3, 07-124.1 SP-4, 07-124.1 SP-5, 07-124.1 SP-6, 07-124.1 SP-7, 07-124.1 SP-8, 07-124.1 SP-9, 07-124.1 SP-10, 07-124.1 SP-11, 07-124.1 SP-12, 07-124.1 SP-13, 07-124.1 SP-14 and 07-124.1 SP-15. The groundwater samples secured from probes GWSP-1 through GWSP-5 were labeled for identification purposes as 07-124.1 GWSP-1, 07-124.1 GWSP-2, 07-124.1 GWSP-3, 07-124.1 GWSP-4 and 07-124.1 GWSP-5, respectively.

The soil and groundwater samples selected for laboratory analysis were containerized in the appropriate vessels, preserved at 4°C in a cooler and transported under proper chain-of-custody procedures to a NYS-DOH certified commercial laboratory for analysis.

## **4 Laboratory Analysis**

### **4.1 Analytical Test Methods**

The samples were transported to a New York State Certified Commercial Laboratory for analysis. Selection of the analytical test methods was based on the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) #4046, Determination of Soil Cleanup Objectives; the New York State Department of Environmental Conservation Technical Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards.

The laboratory analysis performed on the subsurface soil samples secured from probes SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12, SP13, SP-14 and SP-15 consisted of United States Environmental Protection Agency (USEPA) Test Method 8270 for target base-neutral semi-volatile organic analytes, USEPA Test Method 8260 for target volatile organic analytes, USEPA Test Method 6010 for target inorganic analytes and USEPA Test Method 8080/8081 for target PCB/pesticide analytes.

The laboratory analysis performed on the sample secured from groundwater probes GWSP-1 through GWSP-5 consisted of USEPA Test Method 8270 for target base-neutral semi-volatile organic analytes, USEPA Test Method 8260 for target volatile organic analytes, USEPA Test Method 6010 for target inorganic analytes and USEPA Test Method 8080/8081 for target PCB/pesticide analytes.

## 4.2 Analytical Results

The laboratory analysis performed on the subsurface soil samples secured from probes SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9 and SP-10 failed to detect any concentrations of target volatile organic analytes. However, the laboratory analysis performed on the subsurface soil samples secured from probes SP-11, SP-12, SP13, SP-14 and SP-15 detected concentrations of several target volatile organic analytes.

The laboratory analysis performed on the subsurface soil samples secured from probe SP-8 failed to detect any concentrations of target semi-volatile organic analytes. However, the laboratory analysis performed on the subsurface soil samples secured from probes SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-9, SP-10, SP-11, SP-12, SP13, SP-14 and SP-15 detected concentrations of several target semi-volatile organic analytes.

The laboratory analysis performed on the subsurface soil samples secured from probes SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12, SP13, SP-14 and SP-15 detected concentrations of several target inorganic analytes.

The laboratory analysis performed on the groundwater samples secured from probes GWSP-1, GWSP-2, GWSP-3 and GWSP-5 failed to detect any concentrations of target volatile or semi-volatile organic analytes. However, the laboratory analysis performed on the groundwater sample secured from probe GWSP-4 detected concentrations of one volatile and several semi-volatile organic analytes.

The laboratory analysis performed on the groundwater samples secured from probes GWSP-1 through GWSP-5 detected concentrations of several target inorganic analytes.

**Table 3:** Detected Analytes in Soil and Groundwater present a summary of the detected concentrations versus the relevant guidance values that apply in New York State. The original laboratory analysis report as prepared by JMS Analytical Laboratories, Inc. is presented in **Appendix B** of this document.

## 5 Evaluation of Results

A remote sensing survey was performed over portions of the planimetric surface of the Site utilizing a GSSI model SIR-2 ground penetrating radar (GPR) system equipped with a 400MHz antenna. The survey was performed to: 1) to determine the orientation and precise location of the inactive diesel and gasoline UST(s) present on the Site.

An analysis of the data collected for the survey identified the presence of four significant subsurface anomalies on the Site. These anomalies have been interpreted to represent underground storage tanks. Two were identified on the northeastern portion of the Site and two were identified on the southwestern portion of the Site. Fill and vent pipes were observed in proximity to these USTs. Accordingly, the suspected USTs were investigated as potential point contaminant sources as part of this assessment

A total of fifteen soil probes identified as SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12, SP13, SP-14 and SP-15 on the Site as part of this investigation. Soil probes SP-1, SP-2, SP-3, SP-14 and SP-15 were installed proximal to the detected anomalies interpreted to represent USTs. Soil samples were acquired from said probes at depth intervals ranging from grade to 15 feet below existing grade (BEG). These samples were secured to provide data that would indicate if the former USTs had actuated a release of product to the subsurface soil of the Site.

Soil probes SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12 and SP-13 were installed in a grid pattern on the Site. These soil samples were acquired from said probes at depth intervals ranging from grade to 15 feet below existing grade (BEG). These samples were secured to provide data that would indicate if the on-site activities have adversely impacted the environmental quality of the Site.

The laboratory analysis performed on the subsurface soil samples secured from probes SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9 and SP-10 failed to detect any concentrations of target volatile organic analytes. However, the laboratory analysis performed on the subsurface soil samples secured from probes SP-11, SP-12, SP13, SP-14 and SP-15 detected concentrations of several target volatile organic analytes. The detected volatile organic analytes found in SP-12, SP-13, SP-14 and SP-15 were below the applicable guidance criteria.<sup>1</sup> However, the volatile organic analytes detected in SP-11 were above the applicable guidance criteria.<sup>2</sup>

---

<sup>1</sup> NYSDEC, Technical and Administrative Guidance Memorandum (TAGM) #4046, Determination of Soil Cleanup Objectives.

<sup>2</sup> Ibid

The laboratory analysis performed on the subsurface soil samples secured from probe SP-8 failed to detect any concentrations of target semi-volatile organic analytes. However, the laboratory analysis performed on the subsurface soil samples secured from probes SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-9, SP-10, SP-11, SP-12, SP13, SP-14 and SP-15 detected concentrations of several target semi-volatile organic analytes. The detected semi-volatile analytes detected in SP-2, SP-3, SP-9 and SP-10 were below the applicable guidance criteria.<sup>3</sup> However, the semi-volatile analytes detected in SP-1, SP-4, SP-5, SP-6, SP-7, SP-11, SP-12, SP-13, SP-14 and SP-15 were above the applicable guidance criteria.<sup>4</sup>

The laboratory analysis performed on the subsurface soil samples secured from probes SP-1, SP-2, SP-3, SP-4, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12, SP13, SP-14 and SP-15 detected concentrations of several target inorganic analytes. The inorganic analytes detected in SP-1 through SP-15 were above applicable guidance criteria.<sup>5</sup>

The laboratory analysis performed on the groundwater samples secured from probes GWSP-1, GWSP-2, GWSP-3 and GWSP-5 failed to detect any concentrations of target volatile or semi-volatile organic analytes. However, the laboratory analysis performed on the groundwater sample secured from probe GWSP-4 detected concentrations of one volatile and several semi-volatile organic analytes. The volatile and several semi-volatile organic analytes detected in GWSP-4 were above applicable guidance criteria.<sup>6</sup>

The laboratory analysis performed on the groundwater samples secured from probes GWSP-1 through GWSP-5 detected concentrations of several target inorganic analytes. The inorganic analytes detected in GWSP-1 through GWSP-5 were above applicable guidance criteria.<sup>7</sup>

---

<sup>3</sup> NYSDEC, Technical and Administrative Guidance Memorandum (TAGM) #4046, Determination of Soil Cleanup Objectives.

<sup>4</sup> Ibid

<sup>5</sup> Ibid

<sup>6</sup> The New York State Department of Environmental Conservation, Technical Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Limitations

<sup>7</sup> Ibid

## **6 Conclusions and Recommendations**

Impact Environmental has performed a Phase II Environmental Site Assessment, Limited Subsurface Investigation on the Site in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry. The investigation consisted of the sampling and analysis of subsurface soil and groundwater to further define the environmental quality of the Site with respect to the recognized environmental condition outlined in Section 2.3 of this document.

Fifteen soil probes and five groundwater probes were installed on the Site under the scope of this investigation. All of the samples collected for analysis from the soil probes (except SP-8) detected concentrations of target semi-volatile organic and inorganic analytes. Specifically, the semi-volatile analytes detected in SP-1, SP-4, SP-5, SP-6, SP-7, SP-11, SP-12, SP-13, SP-14 and SP-15 were above the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046, Recommended Soil Cleanup Objectives. In addition, the inorganic analytes detected in SP-1 through SP-15 were above NYSDEC TAGM #4046, Recommended Soil Cleanup Objectives. The concentrations and the homogeneity of the distribution of these analytes suggest that their presence is ubiquitous in the site fill, and not a result of the industrial on-site operations. This type of contamination is typical to urban fill found throughout the New York metropolitan area. Urban fill is considered a regulated waste in the State of New York and is therefore required to be managed in accordance with the State Solid Waste Regulations.

One soil probe (SP-11) and one groundwater probe (GWSP-4) detected concentrations of target volatile organic analytes. The soil sample collected from SP-11 exhibited concentrations of several volatile organic compounds above NYSDEC TAGM #4046, Recommended Soil Cleanup Objectives. The detected contaminants from SP-11 are consistent with a degraded petroleum product. The groundwater sample collected from GWSP-4 (proximal to SP-11) exhibited concentrations of one volatile and two semi-volatile organic compounds above NYSDEC Technical Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Limitations. The detected contaminants in the groundwater from GWSP-4 are consistent with a degraded solvent related product. The analytical data from this report will be provided to the NYSDEC under a separate cover.



The two inactive underground diesel storage tanks and the two inactive underground gasoline storage tanks should be properly decommissioned following all applicable rules and regulations. In addition, a tank contingency plan should be incorporated in the remedial action plan to address any additional USTs that may be encountered during any future site development.

Based upon this assessment, dated June 22, 2007, Impact Environmental concludes that historic on-site activities have impacted the environmental quality of the Site. It is recommended that remedial activities be performed to properly mitigate the detected contamination on the Site in accordance with applicable regulations. These activities could be implemented as part of a remedial action work plan in conjunction with any future site development. A remedial action work plan should be submitted to the NYSDEC for review and approval concerning the contaminant source area identified on the Site. Further, the New York City Department of Planning has listed the site with an E-designation for hazardous materials as part of rezoning. As part of any future redevelopment of the Site, a remedial action work plan would also be required by the NYCDEP to satisfy the requirements of the E-designation.

#### **IMPACT ENVIRONMENTAL**

---

James Cressy  
*Environmental Scientist*

---

Kevin Kleaka  
*Project Manager*

## **DISCLAIMER FOR PHASE II ENVIRONMENTAL SITE ASSESSMENT**

The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client.

In preparing this report, Impact Environmental may have relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of state and/or local agencies available to Impact Environmental at the time of the Site assessment. Although there may have been some degree of overlap in the information provided by these various sources, Impact Environmental did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this Site assessment.

Observations were made of the Site and of structures on the Site as indicated within the report. Where access to portions of the Site or to structures on the Site was unavailable or limited, Impact Environmental renders no opinion as to the presence of non-hazardous or hazardous materials, or to the presence of indirect evidence relating to non-hazardous or hazardous materials, in that portion of the Site or structure. In addition, Impact Environmental renders no opinion as to the presence of hazardous materials, or the presence of indirect evidence relating to hazardous materials, where direct observation of the interior walls, floor, or ceiling of a structure on a Site was obstructed by objects or coverings on or over these surfaces.

Impact Environmental did not perform testing or analyses to determine the presence or concentration of asbestos at the Site or in the environment of the Site under the scope of the services performed.

The conclusions and recommendations contained in this report are based in part, where noted, upon the data obtained from a limited number of soil samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

Any water level readings made in test pits, borings, and/or observation wells were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

Except as noted within the text of the report, no qualitative laboratory testing was performed as part of the Site assessment. Where such analyses have been conducted by an outside laboratory, Impact Environmental has relied upon the data provided, and has not conducted an independent evaluation of the reliability of the data.

The conclusions and recommendations contained in this report are based in part, where noted, upon various types of chemical data and are contingent upon their validity. The data have been reviewed and interpretations were made in the report. As indicated within the report, some of the data may be preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, the data should be reviewed, and the conclusions and recommendations presented herein modified accordingly.

Chemical analyses have been performed for specific constituents during the course of this Site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the Site.

**Table 1:** Field Headspace Analysis Results*New York, New York*

<b>Sample ID</b>	<b>SP-1</b>	<b>SP-2</b>	<b>SP-3</b>	<b>SP-4</b>	<b>SP-5</b>	<b>SP-6</b>	<b>SP-7</b>	<b>SP-8</b>	<b>SP-9</b>	<b>SP-10</b>
<i>Unit</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
Depth BEG										
0'-2'	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2'-4'	N/A	56.7	N/A	10.5	1.9	18.9	1.9	1.9	<1	<1
4'-6'	0.0	25.9	1.9	6.5	<1	16.7	0.8	2.4	6.7	<1
6'-8'	1.4	2.4	1.8	2.6	<1	N/A	0.5	2.1	7.4	<1
8'-10'	0.7	5.8	5.7	1.2	<1	4.9	6.8	<1	4.1	<1
10'-12'	N/A	0.4	N/A	<1	<1	5.1	2.4	N/A	6.3	<1
12'-14'	N/A	<1	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A
14'-16'	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<b>Sample ID</b>	<b>SP-11</b>	<b>SP-12</b>	<b>SP-13</b>	<b>SP-14</b>	<b>SP-15</b>
<i>Unit</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
Depth BEG					
0'-2'	N/A	N/A	N/A	N/A	9.9
2'-4'	57.2	17.4	5.3	18.4	N/A
4'-6'	204.0	3.9	10.7	17.9	N/A
6'-8'	21.0	1.4	5.1	11.9	16.7
8'-10'	9.4	1.4	3.6	12.4	19.4
10'-12'	N/A	N/A	N/A	12.0	N/A
12'-14'	N/A	N/A	N/A	N/A	N/A
14'-16'	N/A	N/A	N/A	N/A	N/A

Table 3: Detected Analytes in Soil and Groundwater  
New York, New York  
07-124.1

Parameter Name	Parameter ID	SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	SP10	SP11	SP12	SP13	SP14	SP15	GWSP1	GWSP2	GWSP3	GWSP4	GWSP5	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	NYSDEC Background Levels	NYSDEC TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values
Sample Depth		[7-9']	[4-6']	[8-10']	[2-4']	[2-4']	[3-5']	[7-9']	[5-7']	[6-8']	[8-10']	[3-5']	[3-5']	[3-5']	[3-5']	[10-12']								
Unit	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L	ug/L	ug/L	ug/L	ug/Kg	ug/Kg	ug/L
Total Xylenes	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5448	<5	62	55	82	<5	<5	<5	<5	<5	1,200	NA	5
1,2,4-Trimethylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	14982	<5	<5	27	<5	<5	<5	<5	<5	<5	sum<10,000	NA	5
1,3,5-Trimethylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	12727	<5	<5	48	<5	<5	<5	<5	<5	<5	3,300	NA	5
Toluene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	495	<5	21	<5	21	<5	<5	<5	<5	<5	1,500	NA	5
n-Propylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1481	<5	6.2	<5	6.4	<5	<5	<5	<5	<5	3,700	NA	5
p-Isopropyltoluene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	524	<5	<5	<5	<5	<5	<5	<5	<5	<5	sum<10,000	NA	5
Isopropylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	277	<5	<5	<5	<5	<5	<5	<5	<5	<5	2,300	NA	5
Ethylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	703	<5	11	10	<5	<5	<5	<5	<5	<5	5,500	NA	5
cis-1,2-Dichloroethene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	201	<5	NA	NA	5
sec-Butylbenzene	VOC	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	259	<5	<5	<5	<5	<5	<5	<5	<5	<5	sum < 10,000	NA	5
Dibenzofuran	SVOC	<330	<330	<330	877	<330	<330	<330	<330	<330	<330	<330	<330	<330	951	<330	<11	<20	<12	<11	<11	6,200	NA	NA
Benzo-g,h,i-Perylene	SVOC	577	<330	<330	650	639	449	456	<330	<330	<330	<330	<330	<330	716	840	<11	<20	<12	<11	<11	50,000	NA	NA
Dibenzo-a,h-Anthracene	SVOC	354	<330	<330	358	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<11	<20	<12	<11	<11	14.3 MDL	NA	NA
Indeno(1,2,3-c,d)Pyrene	SVOC	<330	<330	<330	431	376	<330	<330	<330	<330	<330	<330	<330	<330	433	520	<11	<20	<12	<11	<11	3,200	NA	0.002
Benzo-a-Pyrene	SVOC	<330	<330	<330	3315	1096	757	524	<330	<330	<330	373	680	486	3166	2860	<11	<20	<12	<11	<11	61 or MDL	NA	MDL
Benzo-k-Fluoroanthene	SVOC	<330	<330	<330	2723	479	722	457	<330	<330	<330	<330	666	452	4105	2081	<11	<20	<12	<11	<11	220 or MDL	NA	0.002
Benzo-b-Fluoroanthene	SVOC	<330	<330	<330	3790	919	707	418	<330	<330	<330	<330	454	367	3437	938	<11	<20	<12	<11	<11	220 or MDL	NA	0.002
Bis(2-Ethylhexyl)Phthalate	SVOC	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	1248	<330	<330	<330	<330	<11	<20	<12	<11	<11	50,000	NA	5
Chrysene	SVOC	<330	<330	<330	4682	<330	886	454	<330	<330	<330	442	759	396	4721	<330	<11	<20	<12	<11	<11	400	NA	0.002
Benzo-a-Anthracene	SVOC	<330	<330	<330	4697	<330	829	418	<330	<330	<330	465	726	<330	4025	<330	<11	<20	<12	<11	<11	224 or MDL	NA	0.002
Butylbenzylphthalate	SVOC	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	1574	<330	<330	<330	<330	<11	<20	<12	<11	<11	50,000	NA	50
Pyrene	SVOC	<330	<330	<330	8779	539	1606	1049	<330	<330	668	1062	1502	713	7475	1238	<11	<20	<12	<11	<11	50,000	NA	50
Fluoranthene	SVOC	<330	461	<330	16139	1047	3145	2094	<330	465	920	1709	2831	1203	13321	1946	<11	<20	<12	<11	<11	50,000	NA	50
Anthracene	SVOC	<330	<330	<330	4140	<330	723	722	<330	<330	<330	611	608	<330	3284	554	<11	<20	<12	<11	<11	50,000	NA	50
Phenanthrene	SVOC	<330	445	<330	14849	861	2661	2629	<330	358	922	2466	2205	819	12375	2001	<11	<20	<12	18	<11	50,000	NA	50
Fluorene	SVOC	<330	<330	<330	1839	<330	<330	371	<330	<330	<330	585	<330	<330	1688	<330	<11	<20	<12	<11	<11	50,000	NA	50
Acenaphthylene	SVOC	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	1335	<330	<11	<20	<12	<11	<11	41,000	NA	NA
2-Methylnaphthalene	SVOC	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	9308	<330	<330	430	<330	<11	<20	<12	35	<11	36,400	NA	NA
Naphthalene	SVOC	<330	<330	<330	431	<330	<330	<330	<330	<330	<330	4967	<330	<330	807	<330	<11	<20	<12	<11	<11	13,000	NA	10
Unit	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/L	mg/L	mg/L	mg/L	mg/Kg	mg/Kg	mg/L
Zinc, Zn	METAL	70.9	92.7	954	465	138	311	20.4	36.8	144	600	1107	274	2363	1323	33.5	0.367	1.41	0.07	0.301	0.09	20 or SB	9.0-50	2
Vanadium, V	METAL	17.3	19.4	20.2	33.5	14.7	22.1	12.2	19	11.8	31.7	44.4	19.3	29.3	89.8	12.4	<0.05	<0.05	<0.05	<0.05	<0.05	150 or SB	1-300	NA
Thallium, Ti	METAL	1.32	2.21	2.22	1.92	2.14	1.44	1.94	2.31	1.79	1.32	19.2	2.25	26.5	18.4	1.44	<0.05	<0.05	<0.05	<0.05	<0.05	SB	NA	0.0005
Selenium, Se	METAL	0.105	0.186	0.552	1.03	<0.05	0.761	0.771	1.03	<0.05	<0.05	1.07	1.63	<0.05	<0.05	1.42	<0.05	<0.05	0.05	<0.05	<0.05	2 or SB	0.1-3.9	0.01
Antimony, Sb	METAL	2.74	4.64	4.25	3.83	3.45	3.4	3.61	3.7	3.46	4.02	40.8	3.69	31.7	35.7	3.03	<0.05	<0.05	<0.05	<0.05	<0.05	SB	NA	0.003
Lead, Pb	METAL	169	344	511	1150	472	260	14.1	11.6	271	135	1558	999	1295	2062	31.9	<0.05	<0.05	<0.05	<0.05	<0.05	61-500	4.0-61 or 200-500	0.025
Nickel, Ni	METAL	11.6	18.9	114	19.7	12.4	17.3	8.53	14.6	11.6	35.6	71.6	22.2	53.5	60.9	7.39	<0.05	0.09	0.06	<0.05	<0.05	13 or SB	0.5-25	0.1

**Table 3:** Detected Analytes in Soil and Groundwater  
New York, New York  
07-124.1

																						NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	NYSDEC Background Levels	NYSDEC TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values
Parameter Name	Parameter ID	SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	SP10	SP11	SP12	SP13	SP14	SP15	GWSP1	GWSP2	GWSP3	GWSP4	GWSP5			
Sodium, Na	METAL	876	1105	2585	1588	1339	1770	824	1458	843	2631	4414	2078	6460	4795	634	154	165	221	121	136	SB	6,000-8,000	20
Manganese, Mn	METAL	132	162	696	320	338	449	200	356	155	387	1001	337	416	1353	102	8.89	4.25	15.4	6.32	2.71	SB	50-5,000	0.3
Magnesium, Mg	METAL	1658	2143	4471	1614	1532	2276	1530	2947	1849	4905	4693	2962	5940	3914	1895	34.8	63	114	52.3	45.7	SB	100-5,000	35
Potassium, K	METAL	1374	1787	2463	1164	2007	1632	724	1256	1072	4761	4867	2016	9953	5073	1472	51.4	67.5	53.7	20.4	43.1	SB	8,500-43,000	NA
Mercury, Hg	METAL	<0.5	8.84	1.44	8.82	4.7	<0.5	<0.5	<0.5	15.8	<0.5	69.6	5.15	0.82	3.5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	0.1	0.001-0.2	0.0007
Iron, Fe	METAL	11258	15778	16378	14195	9038	11571	5314	15275	7450	23898	148720	16147	12640	85973	6399	0.483	0.593	1.57	1.7	2.09	2,000 or SB	2,000-550,000	0.3
Copper, Cu	METAL	55.5	47.8	22.5	155	34.1	78.2	20.5	18.2	27.9	132	267	65.9	51.7	178	7.02	<0.05	<0.05	0.129	<0.05	0.387	25 or SB	1.0-50	0.2
Chromium, trivalent	METAL	13.5	19.1	49.5	22.7	19	20.9	12.9	18.8	13.3	31.5	105	26	23	53.9	11.5	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	NA
Chromium, Cr	METAL	13.5	19.1	49.9	22.7	19	20.9	12.9	18.8	13.3	31.5	105	26	23	53.9	11.5	<0.05	<0.05	<0.05	<0.05	<0.05	10 or SB	1.5-40	0.05
Cobalt, Co	METAL	3.25	6.78	13.3	4.92	5.26	5.64	3.76	7.02	4.67	14.8	22.4	8.51	19.5	36.4	3.72	<0.05	<0.05	<0.05	<0.05	<0.05	30 or SB	2.5-60	NA
Cadmium, Cd	METAL	1.02	1.49	1.88	6.52	1.3	2.9	0.968	1.58	1.43	2.27	19.4	1.78	20.5	13.4	0.943	<0.05	<0.05	<0.05	<0.05	<0.05	1 or SB	0.1-1	0.005
Calcium, Ca	METAL	4421	5926	25325	12193	14708	13336	1123	2298	11845	13336	29050	8409	77673	19240	7428	166	285	419	186	285	SB	130-35,000	NA
Beryllium, Be	METAL	0.963	0.599	0.58	0.626	0.406	0.6	0.292	0.502	0.249	2.73	0.805	0.709	0.781	0.816	0.229	<0.05	<0.05	<0.05	<0.05	<0.05	0.16 or SB	0.0-1.75	0.003
Barium, Ba	METAL	197	180	778	1435	178	226	46.3	33.4	318	139	516	285	2971	395	72.2	0.413	0.06	0.09	0.309	0.102	300 or SB	15-600	1
Arsenic, As	METAL	6.36	9.8	5.41	15.6	7.38	6.21	2.23	3.74	3.59	3.99	26.6	11.3	30.8	56	3.37	<0.05	<0.05	<0.05	<0.05	<0.05	7.5 or SB	3.0-12	0.025
Aluminum, Al	METAL	6210	7128	6351	3431	4066	5193	2890	9030	3403	9443	7383	8665	3991	6582	9089	0.325	0.239	0.279	0.416	0.249	SB	33,000	0.1
Silver, Ag	METAL	0.147	0.319	0.166	3.63	0.586	0.604	0.19	0.08	0.18	0.07	12.5	0.632	1.7	1.32	0.288	<0.05	<0.05	<0.05	<0.05	<0.05	SB	NA	0.05

Bold values represent concentrations above guidance values  
ND: Not Detected  
NA: Not Applicable



# **Plate 1: Project Location Map**

Date: June 22, 2007

505 W. 27th Street  
New York, New York



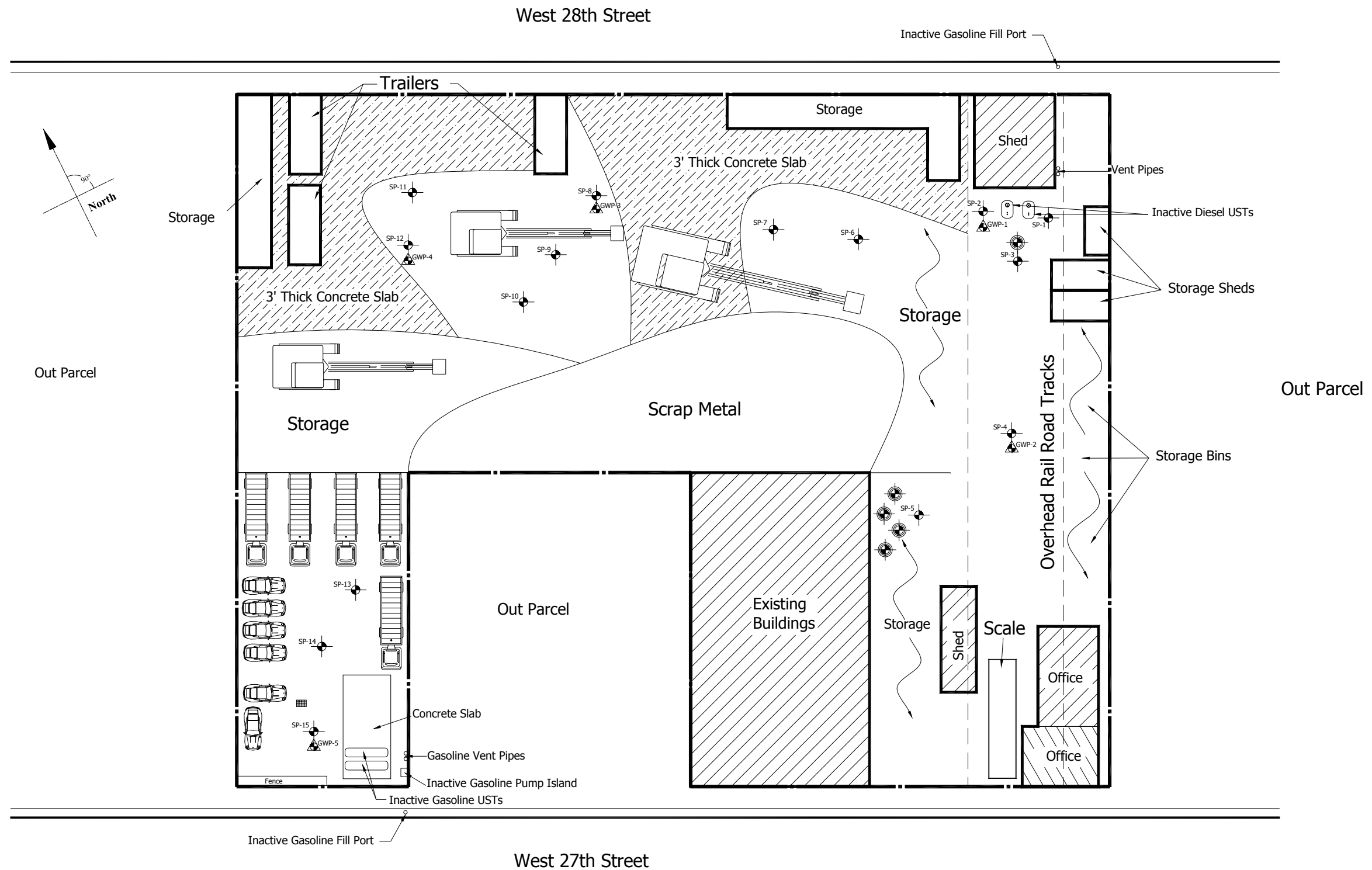
## **IMPACT ENVIRONMENTAL**



170 KEYLAND COURT  
BOHEMIA, NEW YORK 11716  
TEL (631) 269-8800 FAX (631) 269-1599

1560 BROADWAY, SUITE 1024  
NEW YORK, NEW YORK 10036  
TEL (212) 201-7905 FAX (212) 201-7906

**New York State Geographic Information System**  
2001 Half Foot Natural Color Long Island Zone



# Legend

- Groundwater Probe
- Soil Probe
- Soil Probe Refusal
- Catch Basin

TITLE: Sample Acquisition Plan

505 W. 27th Street  
New York, New York

DRAWN BY: JC  
CHECKED BY: KK  
DATE: 06/21/2007  
SCALE: 1" = 35'

PROJECT # 07-124.1  
PLATE # 2

# IMPACT ENVIRONMENTAL

170 KEYLAND COURT  
BOHEMIA, NEW YORK 11716  
TEL (631) 269-8800 FAX (631) 269-1599

1560 BROADWAY, SUITE 1024  
NEW YORK, NEW YORK 10036  
TEL (212) 201-7905 FAX (212) 201-7906



## APPENDIX A:

### Soil Probe Logs



<b>Impact Environmental Soil Boring Log</b>	<b>Probe Code:</b>	<b>SP-1</b>
<b>Site Location: 505 West 27th Street, New York, New York</b>	<b>Installer: JC / JM</b>	
<b>Job Number: 07-124.1</b>	<b>Installation Method: Geoprobe</b>	
<b>Client: 699-44 Corp</b>	<b>Installation Date: 5/30/2007</b>	
<b>Location Description: Scrap Yard</b>	<b>Geologist: JC</b>	

[illegible]

<b>Impact Environmental Soil Boring Log</b>	<b>Probe Code:</b>	<b>SP-2</b>
<b>Site Location: 505 West 27th Street, New York, New York</b>	<b>Installer: JC / JM</b>	
<b>Job Number: 07-124.1</b>	<b>Installation Method: Geoprobe</b>	
<b>Client: 699-44 Corp</b>	<b>Installation Date: 5/30/2007</b>	
<b>Location Description: Scrap Yard</b>	<b>Geologist: JC</b>	

[illegible]

<b>Impact Environmental Soil Boring Log</b>	<b>Probe Code:</b>	<b>SP-3</b>
<b>Site Location: 505 West 27th Street, New York, New York</b>	<b>Installer: JC / JM</b>	
<b>Job Number: 07-124.1</b>	<b>Installation Method: Geoprobe</b>	
<b>Client: 699-44 Corp</b>	<b>Installation Date: 5/30/2007</b>	
<b>Location Description: Scrap Yard</b>	<b>Geologist: JC</b>	

[illegible]

<b>Impact Environmental Soil Boring Log</b>	<b>Probe Code:</b>	<b>SP-4</b>
<b>Site Location: 505 West 27th Street, New York, New York</b>	<b>Installer: JC / JM</b>	
<b>Job Number: 07-124.1</b>	<b>Installation Method: Geoprobe</b>	
<b>Client: 699-44 Corp</b>	<b>Installation Date: 5/30/2007</b>	
<b>Location Description: Scrap Yard</b>	<b>Geologist: JC</b>	

[illegible]

<b>Impact Environmental Soil Boring Log</b>	<b>Probe Code:</b>	<b>SP-5</b>
<b>Site Location: 505 West 27th Street, New York, New York</b>	<b>Installer: JC / JM</b>	
<b>Job Number: 07-124.1</b>	<b>Installation Method: Geoprobe</b>	
<b>Client: 699-44 Corp</b>	<b>Installation Date: 5/30/2007</b>	
<b>Location Description: Scrap Yard</b>	<b>Geologist: JC</b>	

[illegible]



<b>Impact Environmental Soil Boring Log</b>	<b>Probe Code:</b>	<b>SP-7</b>
<b>Site Location: 505 West 27th Street, New York, New York</b>	<b>Installer: JC / JM</b>	
<b>Job Number: 07-124.1</b>	<b>Installation Method: Geoprobe</b>	
<b>Client: 699-44 Corp</b>	<b>Installation Date: 5/30/2007</b>	
<b>Location Description: Scrap Yard</b>	<b>Geologist: JC</b>	

[illegible]









[illegible]









## APPENDIX B:

### **Quality Assurance and Quality Control Procedures (QA/QC)**



## **Quality Assurance and Quality Control Procedures (QA/QC)**

The following sampling QA/QC protocol is in accordance with the United States Environmental Protection Agency's (USEPA) accepted sampling procedures for hazardous waste streams [Municipal Research Laboratory, 1980, Sampling and Analysis Procedures for Hazardous Material Waste Streams, Office of Emergency and Remedial Response, Cincinnati, Ohio. EPA-600/280-018] and American Society of Testing and Material's (ASTM's) Sampling Procedures.

### **A. Sampling Personnel**

The activities associated with the survey, sampling and analysis plan were performed by or under the auspices of a USEPA Office of Emergency and Remedial Response, Certified Sampler for Hazardous Materials. The sample staff (samplers) possessed a minimum of a B.A. Degree in the Earth, Space or Biological Sciences or a B.S. Degree in Engineering. Samplers had a minimum of one (1) year experience in environmental/geological field work. Additionally, all samplers had received mandatory forty-hour Occupational Safety and Health Administration (OSHA) training on working with potentially hazardous materials and appropriate Hazard Communication Program and "Right-To-Know" training.

### **B. Sampling Equipment**

Separate QA/QC measures were implemented for each of the instruments used in the performance of the SAP.

#### *B.1 Geoprobe*

Prior to arrival on the Site and between sample locations, the probes were decontaminated by washing them with a detergent (Alconox) and potable water solution and rinsing them with distilled water.

#### *B.2 Photo Ionization Detector*

Calibration of the PID was conducted prior to sampling using a span gas of known concentration. The PID was a Photovac Micro-Tip, photo ionization detection meter.

#### *B.3 Sample Vessels*

All sample vessels were "level A" certified decontaminated containers supplied by a New York State Certified Commercial Laboratory. Samples analyzed for hydrocarbons were placed in containers with

Teflon lined caps. All samples were preserved by cooling them to a temperature of approximately four degrees Celsius.

## **C. Sample Documentation**

A sample represents physical evidence. An essential part of liability reduction is the proper control of gathered evidence. To establish proper control, the following sample identification and chain-of custody procedures were followed.

### *C.1 Sample Identification*

Sample identification was executed by use of a sample tag, log book and chain-of-custody form. Said documentation provided the following information: 1) the project code; 2) the sample laboratory number; 3) the sample preservation; 4) instrument used for source sample grabs; 5) the composite medium used for source sample grabs; 6) the date the sample was secured from the source media; 7) the time the sample was secured from the source media; and 8) the person who secured the sample from the source media.

### *C.2 Chain-of-Custody Procedures*

Due to the evidential nature of samples, possession was traceable from the time the samples were collected until they were received by the testing laboratory. A sample was considered under custody if it: was in a person's possession; it was in a person's view, after being in possession; if it was in a person's possession and they locked it up; or, it was in a designated secure area. When transferring custody, the individuals relinquishing and receiving the samples signed, dated and noted the time on the Chain-of-Custody Form.

### *C. 3 Laboratory-Custody Procedures*

A designated sample custodian accepted custody of the shipped samples and verified that the information on the sample tags matched that on the Chain-of-Custody Records. Pertinent information as to shipment, pick-up, courier, etc., were entered in the "remarks" section. The custodian entered the sample tag data into a bound logbook.

The laboratory custodian used the sample tag number, or assigned a unique laboratory number to each sample tag, and assured that all samples were transferred to the proper analyst or stored in the

appropriate source area. The laboratory custodian distributed samples to the appropriate analysts. Laboratory personnel were responsible for the care and custody of samples, from the time they were received, until the sample was exhausted or returned to the sample custodian. All identifying data sheets and laboratory records were retained as part of the permanent documentation. Samples received by the laboratory were retained until after analysis and quality assurance checks were completed.

## APPENDIX C:

**Laboratory Report, Long Island Analytical Laboratories, Inc.**

# Analytical Report

**Impact Environmental: 07-124.1**

170 Keyland Ct  
Bohemia, NY 11716

Report Date: 6/12/2007

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057147

### Sample's Information:

**Sample ID:** SP1

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705793

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057147

### Sample's Information:

**Sample ID:** SP1

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705793

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057147

### Sample's Information:

**Sample ID:** SP1

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705793

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	577 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	354 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	<330 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	<330 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	<330 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	<330 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	<330 ppb		EPA 8270
06/11/07	Fluoranthene	<330 ppb		EPA 8270
06/11/07	Anthracene	<330 ppb		EPA 8270
06/11/07	Phenanthrene	<330 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057147

### Sample's Information:

**Sample ID:** SP1

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705793

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057147

### Sample's Information:

**Sample ID:** SP1

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705793

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057147

### Sample's Information:

**Sample ID:** SP1

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705793

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	70.9 ppm	N/A	6010/E200.7
06/12/07	Vanadium	17.3 ppm	N/A	6010/E200.7
06/12/07	Thallium	1.32 ppm	N/A	6010/E200.7
06/12/07	Selenium	0.105 ppm	N/A	6010/E200.7
06/12/07	Antimony	2.74 ppm	N/A	6010/E200.7
06/12/07	Lead	169 ppm	N/A	6010/E200.7
06/12/07	Nickel	11.6 ppm	N/A	6010/E200.7
06/12/07	Sodium	876 ppm	N/A	6010/E200.7
06/12/07	Manganese	132 ppm	N/A	6010/E200.7
06/12/07	Magnesium	1658 ppm	N/A	6010/E200.7
06/12/07	Potassium	1374 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	<0.5 ppm	N/A	7470/E245.1
06/12/07	Iron	11258 ppm	N/A	6010/E200.7
06/12/07	Copper	55.5 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	13.5 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	13.5 ppm	N/A	6010/E200.7
06/12/07	Cobalt	3.25 ppm	N/A	6010/E200.7
06/12/07	Cadmium	1.02 ppm	N/A	6010/E200.7
06/12/07	Calcium	4421 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.963 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057147

### Sample's Information:

**Sample ID:** SP1

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705793

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	197 ppm	N/A	6010/E200.7
06/12/07	Arsenic	6.36 ppm	N/A	6010/E200.7
06/12/07	Aluminum	6210 ppm	N/A	6010/E200.7
06/12/07	Silver	0.147 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057148

### Sample's Information:

**Sample ID:** SP2

**Site:** 4-6'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705794

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057148

### Sample's Information:

**Sample ID:** SP2

**Site:** 4-6'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705794

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057148

### Sample's Information:

**Sample ID:** SP2

**Site:** 4-6'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705794

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	<330 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	<330 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	<330 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	<330 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	<330 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	<330 ppb		EPA 8270
06/11/07	Fluoranthene	461 ppb		EPA 8270
06/11/07	Anthracene	<330 ppb		EPA 8270
06/11/07	Phenanthrene	445 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057148

### Sample's Information:

**Sample ID:** SP2

**Site:** 4-6'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705794

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057148

### Sample's Information:

**Sample ID:** SP2

**Site:** 4-6'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705794

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/06/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/06/07	Parathion	<30 ppb	N/A	EPA 8081
06/06/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/06/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/06/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/06/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/06/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/06/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/06/07	Endrin	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/06/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/06/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/06/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057148

### Sample's Information:

**Sample ID:** SP2

**Site:** 4-6'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705794

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/06/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/06/07	g-BHC	<2 ppb	N/A	EPA 8081
06/06/07	d-BHC	<2 ppb	N/A	EPA 8081
06/06/07	b-BHC	<2 ppb	N/A	EPA 8081
06/06/07	a-BHC	<2 ppb	N/A	EPA 8081
06/06/07	Aldrin	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	92.7 ppm	N/A	6010/E200.7
06/12/07	Vanadium	19.4 ppm	N/A	6010/E200.7
06/12/07	Thallium	2.21 ppm	N/A	6010/E200.7
06/12/07	Selenium	0.186 ppm	N/A	6010/E200.7
06/12/07	Antimony	4.64 ppm	N/A	6010/E200.7
06/12/07	Lead	344 ppm	N/A	6010/E200.7
06/12/07	Nickel	18.9 ppm	N/A	6010/E200.7
06/12/07	Sodium	1105 ppm	N/A	6010/E200.7
06/12/07	Manganese	162 ppm	N/A	6010/E200.7
06/12/07	Magnesium	2143 ppm	N/A	6010/E200.7
06/12/07	Potassium	1787 ppm	N/A	6010/E200.7
06/06/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	8.84 ppm	N/A	7470/E245.1
06/12/07	Iron	15778 ppm	N/A	6010/E200.7
06/12/07	Copper	47.8 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	19.1 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	19.1 ppm	N/A	6010/E200.7
06/12/07	Cobalt	6.78 ppm	N/A	6010/E200.7
06/12/07	Cadmium	1.49 ppm	N/A	6010/E200.7
06/12/07	Calcium	5926 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.599 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057148

### Sample's Information:

**Sample ID:** SP2

**Site:** 4-6'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705794

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	180 ppm	N/A	6010/E200.7
06/12/07	Arsenic	9.8 ppm	N/A	6010/E200.7
06/12/07	Aluminum	7128 ppm	N/A	6010/E200.7
06/12/07	Silver	0.319 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057149

### Sample's Information:

**Sample ID:** SP3

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705795

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057149

### Sample's Information:

**Sample ID:** SP3

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705795

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057149

### Sample's Information:

**Sample ID:** SP3

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705795

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	<330 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	<330 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	<330 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	<330 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	<330 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	<330 ppb		EPA 8270
06/11/07	Fluoranthene	<330 ppb		EPA 8270
06/11/07	Anthracene	<330 ppb		EPA 8270
06/11/07	Phenanthrene	<330 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057149

### Sample's Information:

**Sample ID:** SP3

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705795

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057149

### Sample's Information:

**Sample ID:** SP3

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705795

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057149

### Sample's Information:

**Sample ID:** SP3

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705795

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	954 ppm	N/A	6010/E200.7
06/12/07	Vanadium	20.2 ppm	N/A	6010/E200.7
06/12/07	Thallium	2.22 ppm	N/A	6010/E200.7
06/12/07	Selenium	0.552 ppm	N/A	6010/E200.7
06/12/07	Antimony	4.25 ppm	N/A	6010/E200.7
06/12/07	Lead	511 ppm	N/A	6010/E200.7
06/12/07	Nickel	114 ppm	N/A	6010/E200.7
06/12/07	Sodium	2585 ppm	N/A	6010/E200.7
06/12/07	Manganese	696 ppm	N/A	6010/E200.7
06/12/07	Magnesium	4471 ppm	N/A	6010/E200.7
06/12/07	Potassium	2463 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	1.44 ppm	N/A	7470/E245.1
06/12/07	Iron	16378 ppm	N/A	6010/E200.7
06/12/07	Copper	22.5 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	49.9 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	49.9 ppm	N/A	6010/E200.7
06/12/07	Cobalt	13.3 ppm	N/A	6010/E200.7
06/12/07	Cadmium	1.88 ppm	N/A	6010/E200.7
06/12/07	Calcium	25325 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.58 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Zip:** 11716

**Phone:** (631) 269-8800

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Zip:**

**Phone:**

**JMS ID:** 057149

### Sample's Information:

**Sample ID:** SP3

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705795

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	778 ppm	N/A	6010/E200.7
06/12/07	Arsenic	5.41 ppm	N/A	6010/E200.7
06/12/07	Aluminum	6351 ppm	N/A	6010/E200.7
06/12/07	Silver	0.166 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057150

### Sample's Information:

**Sample ID:** SP4

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705796

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057150

### Sample's Information:

**Sample ID:** SP4

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705796

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057150

### Sample's Information:

**Sample ID:** SP4

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705796

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	877 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	650 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	358 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	431 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	3315 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	2723 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	3790 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	4682 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	4697 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	8779 ppb		EPA 8270
06/11/07	Fluoranthene	16139 ppb		EPA 8270
06/11/07	Anthracene	4140 ppb		EPA 8270
06/11/07	Phenanthrene	14849 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057150

### Sample's Information:

**Sample ID:** SP4

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705796

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	1839 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	1922 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	431 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057150

### Sample's Information:

**Sample ID:** SP4

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705796

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/06/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/06/07	Parathion	<30 ppb	N/A	EPA 8081
06/06/07	Mitotane	<2 ppb	N/A	EPA 8081
06/06/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/06/07	Arochlor 1260	<50 ppb		SW 8082
06/06/07	Arochlor 1254	<50 ppb		SW 8082
06/06/07	Arochlor 1248	<50 ppb		SW 8082
06/06/07	Arochlor 1242	<50 ppb		SW 8082
06/06/07	Arochlor 1232	<50 ppb		SW 8082
06/06/07	Arochlor 1221	<50 ppb		SW 8082
06/06/07	Arochlor 1016	<50 ppb		SW 8082
06/06/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/06/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/06/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/06/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/06/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/06/07	Endrin	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/06/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/06/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/06/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057150

### Sample's Information:

**Sample ID:** SP4

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705796

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/06/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/06/07	g-BHC	<2 ppb	N/A	EPA 8081
06/06/07	d-BHC	<2 ppb	N/A	EPA 8081
06/06/07	b-BHC	<2 ppb	N/A	EPA 8081
06/06/07	a-BHC	<2 ppb	N/A	EPA 8081
06/06/07	Aldrin	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	465 ppm	N/A	6010/E200.7
06/12/07	Vanadium	33.5 ppm	N/A	6010/E200.7
06/12/07	Thallium	1.92 ppm	N/A	6010/E200.7
06/12/07	Selenium	1.03 ppm	N/A	6010/E200.7
06/12/07	Antimony	3.83 ppm	N/A	6010/E200.7
06/12/07	Lead	1150 ppm	N/A	6010/E200.7
06/12/07	Nickel	19.7 ppm	N/A	6010/E200.7
06/12/07	Sodium	1588 ppm	N/A	6010/E200.7
06/12/07	Manganese	320 ppm	N/A	6010/E200.7
06/12/07	Magnesium	1614 ppm	N/A	6010/E200.7
06/12/07	Potassium	1164 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	8.82 ppm	N/A	7470/E245.1
06/12/07	Iron	14195 ppm	N/A	6010/E200.7
06/12/07	Copper	155 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	22.7 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	22.7 ppm	N/A	6010/E200.7
06/12/07	Cobalt	4.92 ppm	N/A	6010/E200.7
06/12/07	Cadmium	6.52 ppm	N/A	6010/E200.7
06/12/07	Calcium	12193 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.626 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057150

### Sample's Information:

**Sample ID:** SP4

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705796

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	1435 ppm	N/A	6010/E200.7
06/12/07	Arsenic	15.6 ppm	N/A	6010/E200.7
06/12/07	Aluminum	3431 ppm	N/A	6010/E200.7
06/12/07	Silver	3.63 ppm	N/A	6010/E200.7

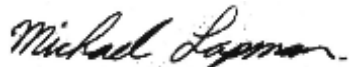
MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057151

### Sample's Information:

**Sample ID:** SP5

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705797

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057151

### Sample's Information:

**Sample ID:** SP5

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705797

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057151

### Sample's Information:

**Sample ID:** SP5

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705797

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	639 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	376 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	1096 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	479 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	919 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	<330 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	<330 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	539 ppb		EPA 8270
06/11/07	Fluoranthene	1047 ppb		EPA 8270
06/11/07	Anthracene	<330 ppb		EPA 8270
06/11/07	Phenanthrene	861 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057151

### Sample's Information:

**Sample ID:** SP5

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705797

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057151

### Sample's Information:

**Sample ID:** SP5

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705797

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/06/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/06/07	Parathion	<30 ppb	N/A	EPA 8081
06/06/07	Mitotane	<2 ppb	N/A	EPA 8081
06/06/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/06/07	Arochlor 1260	<50 ppb		SW 8082
06/06/07	Arochlor 1254	<50 ppb		SW 8082
06/06/07	Arochlor 1248	<50 ppb		SW 8082
06/06/07	Arochlor 1242	<50 ppb		SW 8082
06/06/07	Arochlor 1232	<50 ppb		SW 8082
06/06/07	Arochlor 1221	<50 ppb		SW 8082
06/06/07	Arochlor 1016	<50 ppb		SW 8082
06/06/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/06/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/06/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/06/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/06/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/06/07	Endrin	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/06/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/06/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/06/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057151

### Sample's Information:

**Sample ID:** SP5

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705797

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/06/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/06/07	g-BHC	<2 ppb	N/A	EPA 8081
06/06/07	d-BHC	<2 ppb	N/A	EPA 8081
06/06/07	b-BHC	<2 ppb	N/A	EPA 8081
06/06/07	a-BHC	<2 ppb	N/A	EPA 8081
06/06/07	Aldrin	<2 ppb	N/A	EPA 8081
06/06/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	138 ppm	N/A	6010/E200.7
06/12/07	Vanadium	14.7 ppm	N/A	6010/E200.7
06/12/07	Thallium	2.14 ppm	N/A	6010/E200.7
06/12/07	Selenium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	3.45 ppm	N/A	6010/E200.7
06/12/07	Lead	472 ppm	N/A	6010/E200.7
06/12/07	Nickel	12.4 ppm	N/A	6010/E200.7
06/12/07	Sodium	1339 ppm	N/A	6010/E200.7
06/12/07	Manganese	338 ppm	N/A	6010/E200.7
06/12/07	Magnesium	1532 ppm	N/A	6010/E200.7
06/12/07	Potassium	2007 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	4.7 ppm	N/A	7470/E245.1
06/12/07	Iron	9038 ppm	N/A	6010/E200.7
06/12/07	Copper	34.1 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	19 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	19 ppm	N/A	6010/E200.7
06/12/07	Cobalt	5.26 ppm	N/A	6010/E200.7
06/12/07	Cadmium	1.3 ppm	N/A	6010/E200.7
06/12/07	Calcium	14708 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.406 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

**Mailing Information:**

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Zip:** 11716

**Phone:** (631) 269-8800

**Fax:** (631) 269-1599

**Collector's Information:**

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Zip:**

**Phone:**

**JMS ID:** 057151

**Sample's Information:**

**Sample ID:** SP5

**Site:** 2-4'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705797

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	178 ppm	N/A	6010/E200.7
06/12/07	Arsenic	7.38 ppm	N/A	6010/E200.7
06/12/07	Aluminum	4066 ppm	N/A	6010/E200.7
06/12/07	Silver	0.586 ppm	N/A	6010/E200.7

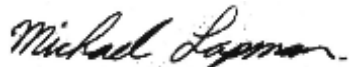
MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057152

### Sample's Information:

**Sample ID:** SP6

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705798

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057152

### Sample's Information:

**Sample ID:** SP6

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705798

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057152

### Sample's Information:

**Sample ID:** SP6

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705798

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	449 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	757 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	722 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	707 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	886 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	829 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	1606 ppb		EPA 8270
06/11/07	Fluoranthene	3145 ppb		EPA 8270
06/11/07	Anthracene	723 ppb		EPA 8270
06/11/07	Phenanthrene	2661 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057152

### Sample's Information:

**Sample ID:** SP6

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705798

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	334 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057152

### Sample's Information:

**Sample ID:** SP6

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705798

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057152

### Sample's Information:

**Sample ID:** SP6

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705798

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	311 ppm	N/A	6010/E200.7
06/12/07	Vanadium	22.1 ppm	N/A	6010/E200.7
06/12/07	Thallium	1.44 ppm	N/A	6010/E200.7
06/12/07	Selenium	0.761 ppm	N/A	6010/E200.7
06/12/07	Antimony	3.4 ppm	N/A	6010/E200.7
06/12/07	Lead	260 ppm	N/A	6010/E200.7
06/12/07	Nickel	17.3 ppm	N/A	6010/E200.7
06/12/07	Sodium	1770 ppm	N/A	6010/E200.7
06/12/07	Manganese	449 ppm	N/A	6010/E200.7
06/12/07	Magnesium	2276 ppm	N/A	6010/E200.7
06/12/07	Potassium	1632 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	<0.5 ppm	N/A	7470/E245.1
06/12/07	Iron	11571 ppm	N/A	6010/E200.7
06/12/07	Copper	78.2 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	20.9 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	20.9 ppm	N/A	6010/E200.7
06/12/07	Cobalt	5.64 ppm	N/A	6010/E200.7
06/12/07	Cadmium	2.9 ppm	N/A	6010/E200.7
06/12/07	Calcium	13336 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.6 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057152

### Sample's Information:

**Sample ID:** SP6

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705798

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	226 ppm	N/A	6010/E200.7
06/12/07	Arsenic	6.21 ppm	N/A	6010/E200.7
06/12/07	Aluminum	5193 ppm	N/A	6010/E200.7
06/12/07	Silver	0.604 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057153

### Sample's Information:

**Sample ID:** SP7

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705799

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057153

### Sample's Information:

**Sample ID:** SP7

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705799

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057153

### Sample's Information:

**Sample ID:** SP7

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705799

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	456 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	524 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	457 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	418 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	454 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	418 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	1049 ppb		EPA 8270
06/11/07	Fluoranthene	2094 ppb		EPA 8270
06/11/07	Anthracene	722 ppb		EPA 8270
06/11/07	Phenanthrene	2629 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057153

### Sample's Information:

**Sample ID:** SP7

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705799

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	371 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057153

### Sample's Information:

**Sample ID:** SP7

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705799

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057153

### Sample's Information:

**Sample ID:** SP7

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705799

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	20.4 ppm	N/A	6010/E200.7
06/12/07	Vanadium	12.2 ppm	N/A	6010/E200.7
06/12/07	Thallium	1.94 ppm	N/A	6010/E200.7
06/12/07	Selenium	0.771 ppm	N/A	6010/E200.7
06/12/07	Antimony	3.61 ppm	N/A	6010/E200.7
06/12/07	Lead	14.1 ppm	N/A	6010/E200.7
06/12/07	Nickel	8.53 ppm	N/A	6010/E200.7
06/12/07	Sodium	824 ppm	N/A	6010/E200.7
06/12/07	Manganese	200 ppm	N/A	6010/E200.7
06/12/07	Magnesium	1530 ppm	N/A	6010/E200.7
06/12/07	Potassium	724 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	<0.5 ppm	N/A	7470/E245.1
06/12/07	Iron	5314 ppm	N/A	6010/E200.7
06/12/07	Copper	20.5 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	12.9 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	12.9 ppm	N/A	6010/E200.7
06/12/07	Cobalt	3.76 ppm	N/A	6010/E200.7
06/12/07	Cadmium	0.968 ppm	N/A	6010/E200.7
06/12/07	Calcium	1123 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.292 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

### Impact Environmental: 07-124.1

**Mailing Information:**

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Zip:** 11716

**Phone:** (631) 269-8800

**Fax:** (631) 269-1599

**Collector's Information:**

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Zip:**

**Phone:**

**JMS ID:** 057153

**Sample's Information:**

**Sample ID:** SP7

**Site:** 7-9'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705799

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	46.3 ppm	N/A	6010/E200.7
06/12/07	Arsenic	2.23 ppm	N/A	6010/E200.7
06/12/07	Aluminum	2890 ppm	N/A	6010/E200.7
06/12/07	Silver	0.19 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057154

### Sample's Information:

**Sample ID:** SP8

**Site:** 5-7'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705800

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057154

### Sample's Information:

**Sample ID:** SP8

**Site:** 5-7'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705800

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057154

### Sample's Information:

**Sample ID:** SP8

**Site:** 5-7'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705800

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	<330 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	<330 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	<330 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	<330 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	<330 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	<330 ppb		EPA 8270
06/11/07	Fluoranthene	<330 ppb		EPA 8270
06/11/07	Anthracene	<330 ppb		EPA 8270
06/11/07	Phenanthrene	<330 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057154

### Sample's Information:

**Sample ID:** SP8

**Site:** 5-7'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705800

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057154

### Sample's Information:

**Sample ID:** SP8

**Site:** 5-7'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705800

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<2 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057154

### Sample's Information:

**Sample ID:** SP8

**Site:** 5-7'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705800

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	36.8 ppm	N/A	6010/E200.7
06/12/07	Vanadium	19 ppm	N/A	6010/E200.7
06/12/07	Thallium	2.31 ppm	N/A	6010/E200.7
06/12/07	Selenium	1.03 ppm	N/A	6010/E200.7
06/12/07	Antimony	3.7 ppm	N/A	6010/E200.7
06/12/07	Lead	11.6 ppm	N/A	6010/E200.7
06/12/07	Nickel	14.6 ppm	N/A	6010/E200.7
06/12/07	Sodium	1458 ppm	N/A	6010/E200.7
06/12/07	Manganese	356 ppm	N/A	6010/E200.7
06/12/07	Magnesium	2947 ppm	N/A	6010/E200.7
06/12/07	Potassium	1256 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	<0.5 ppm	N/A	7470/E245.1
06/12/07	Iron	15275 ppm	N/A	6010/E200.7
06/12/07	Copper	18.2 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	18.8 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	18.8 ppm	N/A	6010/E200.7
06/12/07	Cobalt	7.02 ppm	N/A	6010/E200.7
06/12/07	Cadmium	1.58 ppm	N/A	6010/E200.7
06/12/07	Calcium	2298 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.502 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Zip:** 11716

**Phone:** (631) 269-8800

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Zip:**

**Phone:**

**JMS ID:** 057154

### Sample's Information:

**Sample ID:** SP8

**Site:** 5-7'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705800

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	33.4 ppm	N/A	6010/E200.7
06/12/07	Arsenic	3.74 ppm	N/A	6010/E200.7
06/12/07	Aluminum	9030 ppm	N/A	6010/E200.7
06/12/07	Silver	0.08 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**

*Michael Lapman*

Michael Lapman  
President

**Reviewed By:**

*Sharon Houlahan*

Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057155

### Sample's Information:

**Sample ID:** SP9

**Site:** 6-8'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705801

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057155

### Sample's Information:

**Sample ID:** SP9

**Site:** 6-8'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705801

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057155

### Sample's Information:

**Sample ID:** SP9

**Site:** 6-8'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705801

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	<330 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	<330 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	<330 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	<330 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	<330 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	<330 ppb		EPA 8270
06/11/07	Fluoranthene	465 ppb		EPA 8270
06/11/07	Anthracene	<330 ppb		EPA 8270
06/11/07	Phenanthrene	358 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057155

### Sample's Information:

**Sample ID:** SP9

**Site:** 6-8'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705801

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057155

### Sample's Information:

**Sample ID:** SP9

**Site:** 6-8'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705801

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057155

### Sample's Information:

**Sample ID:** SP9

**Site:** 6-8'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705801

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	144 ppm	N/A	6010/E200.7
06/12/07	Vanadium	11.8 ppm	N/A	6010/E200.7
06/12/07	Thallium	1.79 ppm	N/A	6010/E200.7
06/12/07	Selenium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	3.46 ppm	N/A	6010/E200.7
06/12/07	Lead	271 ppm	N/A	6010/E200.7
06/12/07	Nickel	11.6 ppm	N/A	6010/E200.7
06/12/07	Sodium	843 ppm	N/A	6010/E200.7
06/12/07	Manganese	155 ppm	N/A	6010/E200.7
06/12/07	Magnesium	1849 ppm	N/A	6010/E200.7
06/12/07	Potassium	1072 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	15.8 ppm	N/A	7470/E245.1
06/12/07	Iron	7450 ppm	N/A	6010/E200.7
06/12/07	Copper	27.9 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	13.3 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	13.3 ppm	N/A	6010/E200.7
06/12/07	Cobalt	4.67 ppm	N/A	6010/E200.7
06/12/07	Cadmium	1.43 ppm	N/A	6010/E200.7
06/12/07	Calcium	11845 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.249 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

### Impact Environmental: 07-124.1

**Mailing Information:**

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

**Collector's Information:**

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057155

**Sample's Information:**

**Sample ID:** SP9

**Site:** 6-8'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705801

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	318 ppm	N/A	6010/E200.7
06/12/07	Arsenic	3.59 ppm	N/A	6010/E200.7
06/12/07	Aluminum	3403 ppm	N/A	6010/E200.7
06/12/07	Silver	0.18 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

# Analytical Report

**Impact Environmental: 07-124.1**

170 Keyland Ct  
Bohemia, NY 11716

Report Date: 6/12/2007

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057156

### Sample's Information:

**Sample ID:** SP10

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705802

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	<5 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	<5 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057156

### Sample's Information:

**Sample ID:** SP10

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705802

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/06/07	Isopropylbenzene	<5 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057156

### Sample's Information:

**Sample ID:** SP10

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705802

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	<330 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	<330 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	<330 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	<330 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	<330 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	668 ppb		EPA 8270
06/11/07	Fluoranthene	920 ppb		EPA 8270
06/11/07	Anthracene	<330 ppb		EPA 8270
06/11/07	Phenanthrene	922 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057156

### Sample's Information:

**Sample ID:** SP10

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705802

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057156

### Sample's Information:

**Sample ID:** SP10

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705802

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057156

### Sample's Information:

**Sample ID:** SP10

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705802

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	600 ppm	N/A	6010/E200.7
06/12/07	Vanadium	31.7 ppm	N/A	6010/E200.7
06/12/07	Thallium	1.32 ppm	N/A	6010/E200.7
06/12/07	Selenium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	4.02 ppm	N/A	6010/E200.7
06/12/07	Lead	135 ppm	N/A	6010/E200.7
06/12/07	Nickel	35.6 ppm	N/A	6010/E200.7
06/12/07	Sodium	2631 ppm	N/A	6010/E200.7
06/12/07	Manganese	387 ppm	N/A	6010/E200.7
06/12/07	Magnesium	4905 ppm	N/A	6010/E200.7
06/12/07	Potassium	4761 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	<0.5 ppm	N/A	7470/E245.1
06/12/07	Iron	23898 ppm	N/A	6010/E200.7
06/12/07	Copper	132 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	31.5 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	31.5 ppm	N/A	6010/E200.7
06/12/07	Cobalt	14.8 ppm	N/A	6010/E200.7
06/12/07	Cadmium	2.27 ppm	N/A	6010/E200.7
06/12/07	Calcium	13336 ppm	N/A	6010/E200.7
06/12/07	Beryllium	2.73 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057156

### Sample's Information:

**Sample ID:** SP10

**Site:** 8-10'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705802

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	139 ppm	N/A	6010/E200.7
06/12/07	Arsenic	3.99 ppm	N/A	6010/E200.7
06/12/07	Aluminum	9443 ppm	N/A	6010/E200.7
06/12/07	Silver	0.07 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**

*Michael Lapman*

Michael Lapman  
President

**Reviewed By:**

*Sharon Houlahan*

Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057157

### Sample's Information:

**Sample ID:** SP11

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705803

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/06/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/06/07	Freon 113	<5 ppb		EPA 8260
06/06/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/06/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/06/07	Acrylonitrile	<5 ppb		EPA 8260
06/06/07	1,4-dioxane	<5 ppb		EPA 8260
06/06/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/06/07	Total Xylenes	5448 ppb		EPA 8260
06/06/07	2-Hexanone	<5 ppb		EPA 8260
06/06/07	Vinyl Acetate	<5 ppb		EPA 8260
06/06/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/06/07	Carbon disulfide	<5 ppb		EPA 8260
06/06/07	Acetone	<5 ppb		EPA 8260
06/06/07	Vinyl chloride	<5 ppb		EPA 8260
06/06/07	1,2,4-Trimethylbenzene	14982 ppb		EPA 8260
06/06/07	1,3,5-Trimethylbenzene	12727 ppb		EPA 8260
06/06/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/06/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/06/07	Trichloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/06/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/06/07	Toluene	495 ppb		EPA 8260
06/06/07	Tetrachloroethene	<5 ppb		EPA 8260
06/06/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/06/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/06/07	Styrene	<5 ppb		EPA 8260
06/06/07	n-Propylbenzene	1481 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057157

### Sample's Information:

**Sample ID:** SP11

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705803

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Methylene Chloride	<5 ppb		EPA 8260
06/06/07	p-Isopropyltoluene	524 ppb		EPA 8260
06/06/07	Isopropylbenzene	277 ppb		EPA 8260
06/06/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/06/07	Ethylbenzene	703 ppb		EPA 8260
06/06/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/06/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/06/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/06/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/06/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/06/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/06/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/06/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/06/07	Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/06/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/06/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/06/07	Chloromethane	<5 ppb		EPA 8260
06/06/07	Chloroform	<5 ppb		EPA 8260
06/06/07	Chloroethane	<5 ppb		EPA 8260
06/06/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/06/07	Chlorobenzene	<5 ppb		EPA 8260
06/06/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/06/07	sec-Butylbenzene	259 ppb		EPA 8260
06/06/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057157

### Sample's Information:

**Sample ID:** SP11

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705803

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/06/07	Bromomethane	<5 ppb		EPA 8260
06/06/07	Bromoform	<5 ppb		EPA 8260
06/06/07	Bromodichloromethane	<5 ppb		EPA 8260
06/06/07	Bromochloromethane	<5 ppb		EPA 8260
06/06/07	Bromobenzene	<5 ppb		EPA 8260
06/06/07	Benzene	<5 ppb		EPA 8260
06/06/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/06/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	<330 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	373 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	<330 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	<330 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	1248 ppb		EPA 8270
06/11/07	Chrysene	442 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	465 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	1574 ppb		EPA 8270
06/11/07	Pyrene	1062 ppb		EPA 8270
06/11/07	Fluoranthene	1709 ppb		EPA 8270
06/11/07	Anthracene	611 ppb		EPA 8270
06/11/07	Phenanthrene	2466 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057157

### Sample's Information:

**Sample ID:** SP11

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705803

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	585 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	9308 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	4967 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057157

### Sample's Information:

**Sample ID:** SP11

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705803

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057157

### Sample's Information:

**Sample ID:** SP11

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705803

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/06/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	1107 ppm	N/A	6010/E200.7
06/12/07	Vanadium	44.4 ppm	N/A	6010/E200.7
06/12/07	Thallium	19.2 ppm	N/A	6010/E200.7
06/12/07	Selenium	1.07 ppm	N/A	6010/E200.7
06/12/07	Antimony	40.8 ppm	N/A	6010/E200.7
06/12/07	Lead	1558 ppm	N/A	6010/E200.7
06/12/07	Nickel	71.6 ppm	N/A	6010/E200.7
06/12/07	Sodium	4414 ppm	N/A	6010/E200.7
06/12/07	Manganese	1001 ppm	N/A	6010/E200.7
06/12/07	Magnesium	4693 ppm	N/A	6010/E200.7
06/12/07	Potassium	4867 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	69.6 ppm	N/A	7470/E245.1
06/12/07	Iron	148720 ppm	N/A	6010/E200.7
06/12/07	Copper	267 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	105 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	105 ppm	N/A	6010/E200.7
06/12/07	Cobalt	22.4 ppm	N/A	6010/E200.7
06/12/07	Cadmium	19.4 ppm	N/A	6010/E200.7
06/12/07	Calcium	29050 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.805 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

### Impact Environmental: 07-124.1

**Mailing Information:**

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

**Collector's Information:**

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057157

**Sample's Information:**

**Sample ID:** SP11

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705803

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	516 ppm	N/A	6010/E200.7
06/12/07	Arsenic	26.6 ppm	N/A	6010/E200.7
06/12/07	Aluminum	7383 ppm	N/A	6010/E200.7
06/12/07	Silver	12.5 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057158

### Sample's Information:

**Sample ID:** SP12

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705804

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/07/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/07/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/07/07	Freon 113	<5 ppb		EPA 8260
06/07/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/07/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/07/07	Acrylonitrile	<5 ppb		EPA 8260
06/07/07	1,4-dioxane	<5 ppb		EPA 8260
06/07/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/07/07	Total Xylenes	<5 ppb		EPA 8260
06/07/07	2-Hexanone	<5 ppb		EPA 8260
06/07/07	Vinyl Acetate	<5 ppb		EPA 8260
06/07/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/07/07	Carbon disulfide	<5 ppb		EPA 8260
06/07/07	Acetone	<5 ppb		EPA 8260
06/07/07	Vinyl chloride	<5 ppb		EPA 8260
06/07/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/07/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/07/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/07/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/07/07	Trichloroethene	<5 ppb		EPA 8260
06/07/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/07/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/07/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/07/07	Toluene	<5 ppb		EPA 8260
06/07/07	Tetrachloroethene	<5 ppb		EPA 8260
06/07/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/07/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/07/07	Styrene	<5 ppb		EPA 8260
06/07/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057158

### Sample's Information:

**Sample ID:** SP12

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705804

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	Methylene Chloride	<5 ppb		EPA 8260
06/07/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/07/07	Isopropylbenzene	<5 ppb		EPA 8260
06/07/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/07/07	Ethylbenzene	<5 ppb		EPA 8260
06/07/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/07/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/07/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/07/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/07/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/07/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/07/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/07/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/07/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/07/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/07/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	Dibromoethane	<5 ppb		EPA 8260
06/07/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/07/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/07/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/07/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/07/07	Chloromethane	<5 ppb		EPA 8260
06/07/07	Chloroform	<5 ppb		EPA 8260
06/07/07	Chloroethane	<5 ppb		EPA 8260
06/07/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/07/07	Chlorobenzene	<5 ppb		EPA 8260
06/07/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/07/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/07/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057158

### Sample's Information:

**Sample ID:** SP12

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705804

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	Bromomethane	<5 ppb		EPA 8260
06/07/07	Bromoform	<5 ppb		EPA 8260
06/07/07	Bromodichloromethane	<5 ppb		EPA 8260
06/07/07	Bromochloromethane	<5 ppb		EPA 8260
06/07/07	Bromobenzene	<5 ppb		EPA 8260
06/07/07	Benzene	<5 ppb		EPA 8260
06/07/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/07/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	<330 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	680 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	666 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	454 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	759 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	726 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	1502 ppb		EPA 8270
06/11/07	Fluoranthene	2831 ppb		EPA 8270
06/11/07	Anthracene	608 ppb		EPA 8270
06/11/07	Phenanthrene	2205 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057158

### Sample's Information:

**Sample ID:** SP12

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705804

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057158

### Sample's Information:

**Sample ID:** SP12

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705804

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057158

### Sample's Information:

**Sample ID:** SP12

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705804

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/07/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	274 ppm	N/A	6010/E200.7
06/12/07	Vanadium	19.3 ppm	N/A	6010/E200.7
06/12/07	Thallium	2.25 ppm	N/A	6010/E200.7
06/12/07	Selenium	1.63 ppm	N/A	6010/E200.7
06/12/07	Antimony	3.69 ppm	N/A	6010/E200.7
06/12/07	Lead	999 ppm	N/A	6010/E200.7
06/12/07	Nickel	22.2 ppm	N/A	6010/E200.7
06/12/07	Sodium	2078 ppm	N/A	6010/E200.7
06/12/07	Manganese	337 ppm	N/A	6010/E200.7
06/12/07	Magnesium	2962 ppm	N/A	6010/E200.7
06/12/07	Potassium	2016 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	5.15 ppm	N/A	7470/E245.1
06/12/07	Iron	16147 ppm	N/A	6010/E200.7
06/12/07	Copper	65.9 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	26 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	26 ppm	N/A	6010/E200.7
06/12/07	Cobalt	8.51 ppm	N/A	6010/E200.7
06/12/07	Cadmium	1.78 ppm	N/A	6010/E200.7
06/12/07	Calcium	8409 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.709 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Zip:** 11716

**Phone:** (631) 269-8800

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Zip:**

**Phone:**

**JMS ID:** 057158

### Sample's Information:

**Sample ID:** SP12

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705804

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	285 ppm	N/A	6010/E200.7
06/12/07	Arsenic	11.3 ppm	N/A	6010/E200.7
06/12/07	Aluminum	8665 ppm	N/A	6010/E200.7
06/12/07	Silver	0.632 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057159

### Sample's Information:

**Sample ID:** SP13

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705805

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/07/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/07/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/07/07	Freon 113	<5 ppb		EPA 8260
06/07/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/07/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/07/07	Acrylonitrile	<5 ppb		EPA 8260
06/07/07	1,4-dioxane	<5 ppb		EPA 8260
06/07/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/07/07	Total Xylenes	62 ppb		EPA 8260
06/07/07	2-Hexanone	<5 ppb		EPA 8260
06/07/07	Vinyl Acetate	<5 ppb		EPA 8260
06/07/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/07/07	Carbon disulfide	<5 ppb		EPA 8260
06/07/07	Acetone	<5 ppb		EPA 8260
06/07/07	Vinyl chloride	<5 ppb		EPA 8260
06/07/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/07/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/07/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/07/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/07/07	Trichloroethene	<5 ppb		EPA 8260
06/07/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/07/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/07/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/07/07	Toluene	21 ppb		EPA 8260
06/07/07	Tetrachloroethene	<5 ppb		EPA 8260
06/07/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/07/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/07/07	Styrene	<5 ppb		EPA 8260
06/07/07	n-Propylbenzene	6.2 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057159

### Sample's Information:

**Sample ID:** SP13

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705805

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	Methylene Chloride	<5 ppb		EPA 8260
06/07/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/07/07	Isopropylbenzene	<5 ppb		EPA 8260
06/07/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/07/07	Ethylbenzene	11 ppb		EPA 8260
06/07/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/07/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/07/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/07/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/07/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/07/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/07/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/07/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/07/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/07/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/07/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	Dibromoethane	<5 ppb		EPA 8260
06/07/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/07/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/07/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/07/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/07/07	Chloromethane	<5 ppb		EPA 8260
06/07/07	Chloroform	<5 ppb		EPA 8260
06/07/07	Chloroethane	<5 ppb		EPA 8260
06/07/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/07/07	Chlorobenzene	<5 ppb		EPA 8260
06/07/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/07/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/07/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057159

### Sample's Information:

**Sample ID:** SP13

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705805

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	Bromomethane	<5 ppb		EPA 8260
06/07/07	Bromoform	<5 ppb		EPA 8260
06/07/07	Bromodichloromethane	<5 ppb		EPA 8260
06/07/07	Bromochloromethane	<5 ppb		EPA 8260
06/07/07	Bromobenzene	<5 ppb		EPA 8260
06/07/07	Benzene	<5 ppb		EPA 8260
06/07/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/07/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	<330 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	<330 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	486 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	452 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	367 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	396 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	<330 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	713 ppb		EPA 8270
06/11/07	Fluoranthene	1203 ppb		EPA 8270
06/11/07	Anthracene	<330 ppb		EPA 8270
06/11/07	Phenanthrene	819 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057159

### Sample's Information:

**Sample ID:** SP13

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705805

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057159

### Sample's Information:

**Sample ID:** SP13

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705805

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057159

### Sample's Information:

**Sample ID:** SP13

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705805

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/07/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	2363 ppm	N/A	6010/E200.7
06/12/07	Vanadium	29.3 ppm	N/A	6010/E200.7
06/12/07	Thallium	26.5 ppm	N/A	6010/E200.7
06/12/07	Selenium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	31.7 ppm	N/A	6010/E200.7
06/12/07	Lead	1295 ppm	N/A	6010/E200.7
06/12/07	Nickel	53.5 ppm	N/A	6010/E200.7
06/12/07	Sodium	6460 ppm	N/A	6010/E200.7
06/12/07	Manganese	416 ppm	N/A	6010/E200.7
06/12/07	Magnesium	5940 ppm	N/A	6010/E200.7
06/12/07	Potassium	9953 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	0.82 ppm	N/A	7470/E245.1
06/12/07	Iron	12640 ppm	N/A	6010/E200.7
06/12/07	Copper	51.7 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	23 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	23 ppm	N/A	6010/E200.7
06/12/07	Cobalt	19.5 ppm	N/A	6010/E200.7
06/12/07	Cadmium	20.5 ppm	N/A	6010/E200.7
06/12/07	Calcium	77673 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.781 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057159

### Sample's Information:

**Sample ID:** SP13

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705805

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	2971 ppm	N/A	6010/E200.7
06/12/07	Arsenic	30.8 ppm	N/A	6010/E200.7
06/12/07	Aluminum	3991 ppm	N/A	6010/E200.7
06/12/07	Silver	1.7 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**

*Michael Lapman*

Michael Lapman  
President

**Reviewed By:**

*Sharon Houlahan*

Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057160

### Sample's Information:

**Sample ID:** SP14

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705806

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/07/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/07/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/07/07	Freon 113	<5 ppb		EPA 8260
06/07/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/07/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/07/07	Acrylonitrile	<5 ppb		EPA 8260
06/07/07	1,4-dioxane	<5 ppb		EPA 8260
06/07/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/07/07	Total Xylenes	55 ppb		EPA 8260
06/07/07	2-Hexanone	<5 ppb		EPA 8260
06/07/07	Vinyl Acetate	<5 ppb		EPA 8260
06/07/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/07/07	Carbon disulfide	<5 ppb		EPA 8260
06/07/07	Acetone	<5 ppb		EPA 8260
06/07/07	Vinyl chloride	<5 ppb		EPA 8260
06/07/07	1,2,4-Trimethylbenzene	27 ppb		EPA 8260
06/07/07	1,3,5-Trimethylbenzene	48 ppb		EPA 8260
06/07/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/07/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/07/07	Trichloroethene	<5 ppb		EPA 8260
06/07/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/07/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/07/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/07/07	Toluene	<5 ppb		EPA 8260
06/07/07	Tetrachloroethene	<5 ppb		EPA 8260
06/07/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/07/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/07/07	Styrene	<5 ppb		EPA 8260
06/07/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057160

### Sample's Information:

**Sample ID:** SP14

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705806

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	Methylene Chloride	<5 ppb		EPA 8260
06/07/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/07/07	Isopropylbenzene	<5 ppb		EPA 8260
06/07/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/07/07	Ethylbenzene	10 ppb		EPA 8260
06/07/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/07/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/07/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/07/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/07/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/07/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/07/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/07/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/07/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/07/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/07/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	Dibromoethane	<5 ppb		EPA 8260
06/07/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/07/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/07/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/07/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/07/07	Chloromethane	<5 ppb		EPA 8260
06/07/07	Chloroform	<5 ppb		EPA 8260
06/07/07	Chloroethane	<5 ppb		EPA 8260
06/07/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/07/07	Chlorobenzene	<5 ppb		EPA 8260
06/07/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/07/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/07/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057160

### Sample's Information:

**Sample ID:** SP14

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705806

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	Bromomethane	<5 ppb		EPA 8260
06/07/07	Bromoform	<5 ppb		EPA 8260
06/07/07	Bromodichloromethane	<5 ppb		EPA 8260
06/07/07	Bromochloromethane	<5 ppb		EPA 8260
06/07/07	Bromobenzene	<5 ppb		EPA 8260
06/07/07	Benzene	<5 ppb		EPA 8260
06/07/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/07/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	951 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	716 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	433 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	3166 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	4105 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	3437 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	4721 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	4025 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	7475 ppb		EPA 8270
06/11/07	Fluoranthene	13321 ppb		EPA 8270
06/11/07	Anthracene	3284 ppb		EPA 8270
06/11/07	Phenanthrene	12375 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057160

### Sample's Information:

**Sample ID:** SP14

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705806

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	1688 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	585 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	1335 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	430 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	807 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057160

### Sample's Information:

**Sample ID:** SP14

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705806

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<30 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<100 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057160

### Sample's Information:

**Sample ID:** SP14

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705806

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/07/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	1323 ppm	N/A	6010/E200.7
06/12/07	Vanadium	89.8 ppm	N/A	6010/E200.7
06/12/07	Thallium	18.4 ppm	N/A	6010/E200.7
06/12/07	Selenium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	35.7 ppm	N/A	6010/E200.7
06/12/07	Lead	2062 ppm	N/A	6010/E200.7
06/12/07	Nickel	60.9 ppm	N/A	6010/E200.7
06/12/07	Sodium	4795 ppm	N/A	6010/E200.7
06/12/07	Manganese	1353 ppm	N/A	6010/E200.7
06/12/07	Magnesium	3914 ppm	N/A	6010/E200.7
06/12/07	Potassium	5073 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	3.5 ppm	N/A	7470/E245.1
06/12/07	Iron	85973 ppm	N/A	6010/E200.7
06/12/07	Copper	178 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	53.9 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	53.9 ppm	N/A	6010/E200.7
06/12/07	Cobalt	36.4 ppm	N/A	6010/E200.7
06/12/07	Cadmium	13.4 ppm	N/A	6010/E200.7
06/12/07	Calcium	19240 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.816 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057160

### Sample's Information:

**Sample ID:** SP14

**Site:** 3-5'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705806

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	395 ppm	N/A	6010/E200.7
06/12/07	Arsenic	56 ppm	N/A	6010/E200.7
06/12/07	Aluminum	6582 ppm	N/A	6010/E200.7
06/12/07	Silver	1.32 ppm	N/A	6010/E200.7


MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057161

### Sample's Information:

**Sample ID:** SP15

**Site:** 10-12'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705807

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/07/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/07/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/07/07	Freon 113	<5 ppb		EPA 8260
06/07/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/07/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/07/07	Acrylonitrile	<5 ppb		EPA 8260
06/07/07	1,4-dioxane	<5 ppb		EPA 8260
06/07/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/07/07	Total Xylenes	82 ppb		EPA 8260
06/07/07	2-Hexanone	<5 ppb		EPA 8260
06/07/07	Vinyl Acetate	<5 ppb		EPA 8260
06/07/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/07/07	Carbon disulfide	<5 ppb		EPA 8260
06/07/07	Acetone	<5 ppb		EPA 8260
06/07/07	Vinyl chloride	<5 ppb		EPA 8260
06/07/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/07/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/07/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/07/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/07/07	Trichloroethene	<5 ppb		EPA 8260
06/07/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/07/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/07/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/07/07	Toluene	21 ppb		EPA 8260
06/07/07	Tetrachloroethene	<5 ppb		EPA 8260
06/07/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/07/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/07/07	Styrene	<5 ppb		EPA 8260
06/07/07	n-Propylbenzene	6.4 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057161

### Sample's Information:

**Sample ID:** SP15

**Site:** 10-12'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705807

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	Methylene Chloride	<5 ppb		EPA 8260
06/07/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/07/07	Isopropylbenzene	<5 ppb		EPA 8260
06/07/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/07/07	Ethylbenzene	<5 ppb		EPA 8260
06/07/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/07/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/07/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/07/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/07/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/07/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/07/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/07/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/07/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/07/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/07/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/07/07	Dibromoethane	<5 ppb		EPA 8260
06/07/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/07/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/07/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/07/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/07/07	Chloromethane	<5 ppb		EPA 8260
06/07/07	Chloroform	<5 ppb		EPA 8260
06/07/07	Chloroethane	<5 ppb		EPA 8260
06/07/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/07/07	Chlorobenzene	<5 ppb		EPA 8260
06/07/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/07/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/07/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057161

### Sample's Information:

**Sample ID:** SP15

**Site:** 10-12'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705807

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/07/07	Bromomethane	<5 ppb		EPA 8260
06/07/07	Bromoform	<5 ppb		EPA 8260
06/07/07	Bromodichloromethane	<5 ppb		EPA 8260
06/07/07	Bromochloromethane	<5 ppb		EPA 8260
06/07/07	Bromobenzene	<5 ppb		EPA 8260
06/07/07	Benzene	<5 ppb		EPA 8260
06/07/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/07/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/11/07	Dibenzofuran	<330 ppb		EPA 8270
06/11/07	Di-n-octyl phthalate	<330 ppb		EPA 8270
06/11/07	Di-N-Butylphthalate	<330 ppb		EPA 8270
06/11/07	Diethyl Phthalate	<330 ppb		EPA 8270
06/11/07	m-Cresol	<330 ppb		EPA 8270
06/11/07	Benzo(g,h,i)perylene	840 ppb		EPA 8270
06/11/07	Dibenz(a,h)anthracene	<330 ppb		EPA 8270
06/11/07	Indeno(1,2,3-cd)pyrene	520 ppb		EPA 8270
06/11/07	Benzo(a)pyrene	2860 ppb		EPA 8270
06/11/07	Benzo(k)fluoranthene	2081 ppb		EPA 8270
06/11/07	Benzo(b)fluoranthene	938 ppb		EPA 8270
06/11/07	bis(2-ethylhexyl)phthalate	<330 ppb		EPA 8270
06/11/07	Chrysene	<330 ppb		EPA 8270
06/11/07	Benzo(a)anthracene	<330 ppb		EPA 8270
06/11/07	3,3'-Dichlorobenzidine	<330 ppb		EPA 8270
06/11/07	Butyl Benzyl Phthalate	<330 ppb		EPA 8270
06/11/07	Pyrene	1238 ppb		EPA 8270
06/11/07	Fluoranthene	1946 ppb		EPA 8270
06/11/07	Anthracene	554 ppb		EPA 8270
06/11/07	Phenanthrene	2001 ppb		EPA 8270
06/11/07	Pentachlorophenol	<330 ppb		EPA 8270
06/11/07	4-Bromophenyl Phenyl Ether	<330 ppb		EPA 8270
06/11/07	n-Nitrosodiphenylamine	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057161

### Sample's Information:

**Sample ID:** SP15

**Site:** 10-12'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705807

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	4,6-Dinitro-2-methylphenol	<330 ppb		EPA 8270
06/11/07	4-Nitroaniline	<330 ppb		EPA 8270
06/11/07	4-Chlorophenyl Phenylether	<330 ppb		EPA 8270
06/11/07	Fluorene	<330 ppb		EPA 8270
06/11/07	4-Nitrophenol	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	2,4-Dinitrophenol	<330 ppb		EPA 8270
06/11/07	3-Nitroaniline	<330 ppb		EPA 8270
06/11/07	Acenaphthene	<330 ppb		EPA 8270
06/11/07	2,6-Dinitrotoluene	<330 ppb		EPA 8270
06/11/07	Dimethyl Phthalate	<330 ppb		EPA 8270
06/11/07	Acenaphthylene	<330 ppb		EPA 8270
06/11/07	2-Nitroaniline	<330 ppb		EPA 8270
06/11/07	2-Chloronaphthalene	<330 ppb		EPA 8270
06/11/07	2,4,5-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	2,4,6-Trichlorophenol	<330 ppb		EPA 8270
06/11/07	Hexachlorocyclopentadiene	<330 ppb		EPA 8270
06/11/07	2-Methylnaphthalene	<330 ppb		EPA 8270
06/11/07	4-Chloro-3-Methylphenol	<330 ppb		EPA 8270
06/11/07	4-Chloroaniline	<330 ppb		EPA 8270
06/11/07	Naphthalene	<330 ppb		EPA 8270
06/11/07	2,4-Dichlorophenol	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethoxy)methane	<330 ppb		EPA 8270
06/11/07	2,4-Dimethylphenol	<330 ppb		EPA 8270
06/11/07	2-Nitrophenol	<330 ppb		EPA 8270
06/11/07	Isophorone	<330 ppb		EPA 8270
06/11/07	Nitrobenzene	<330 ppb		EPA 8270
06/11/07	4-Methylphenol (p-Cresol)	<330 ppb		EPA 8270
06/11/07	n-Nitrosodi-n-propylamine	<330 ppb		EPA 8270
06/11/07	Hexachloroethane	<330 ppb		EPA 8270
06/11/07	2-Methylphenol (o-Cresol)	<330 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057161

### Sample's Information:

**Sample ID:** SP15

**Site:** 10-12'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705807

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/11/07	bis(2-Chloroisopropyl) ether	<330 ppb		EPA 8270
06/11/07	2-Chlorophenol	<330 ppb		EPA 8270
06/11/07	Phenols	<330 ppb		EPA 8270
06/11/07	bis(2-Chloroethyl) ether	<330 ppb		EPA 8270
06/11/07	Hexachlorobenzene	<330 ppb		EPA 8270
06/11/07	Aniline	<330 ppb		EPA 8270
06/11/07	Dinitrotoluene(2,4-/2,6-)	<330 ppb		EPA 8270
06/11/07	Benzyl Alcohol	<330 ppb		EPA 8270
06/08/07	Methoxychlor	<2 ppb	N/A	EPA 8081
06/08/07	Parathion	<2 ppb	N/A	EPA 8081
06/08/07	Mitotane	<2 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<50 ppb		SW 8082
06/08/07	Arochlor 1260	<50 ppb		SW 8082
06/08/07	Arochlor 1254	<50 ppb		SW 8082
06/08/07	Arochlor 1248	<50 ppb		SW 8082
06/08/07	Arochlor 1242	<50 ppb		SW 8082
06/08/07	Arochlor 1232	<50 ppb		SW 8082
06/08/07	Arochlor 1221	<50 ppb		SW 8082
06/08/07	Arochlor 1016	<50 ppb		SW 8082
06/08/07	Endrin Ketone	<2 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<2 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<2 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<2 ppb	N/A	EPA 8081
06/08/07	Endrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<2 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<2 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<2 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057161

### Sample's Information:

**Sample ID:** SP15

**Site:** 10-12'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705807

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<2 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<2 ppb	N/A	EPA 8081
06/08/07	g-BHC	<2 ppb	N/A	EPA 8081
06/08/07	d-BHC	<2 ppb	N/A	EPA 8081
06/08/07	b-BHC	<2 ppb	N/A	EPA 8081
06/08/07	a-BHC	<2 ppb	N/A	EPA 8081
06/08/07	Aldrin	<2 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<2 ppb	N/A	EPA 8081
06/07/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	33.5 ppm	N/A	6010/E200.7
06/12/07	Vanadium	12.4 ppm	N/A	6010/E200.7
06/12/07	Thallium	1.44 ppm	N/A	6010/E200.7
06/12/07	Selenium	1.42 ppm	N/A	6010/E200.7
06/12/07	Antimony	3.03 ppm	N/A	6010/E200.7
06/12/07	Lead	31.9 ppm	N/A	6010/E200.7
06/12/07	Nickel	7.39 ppm	N/A	6010/E200.7
06/12/07	Sodium	634 ppm	N/A	6010/E200.7
06/12/07	Manganese	102 ppm	N/A	6010/E200.7
06/12/07	Magnesium	1895 ppm	N/A	6010/E200.7
06/12/07	Potassium	1472 ppm	N/A	6010/E200.7
06/04/07	Mercury (inorganic salts)	<0.5 ppm	N/A	7470/E245.1
06/04/07	Mercury	<0.5 ppm	N/A	7470/E245.1
06/12/07	Iron	6399 ppm	N/A	6010/E200.7
06/12/07	Copper	7.02 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	11.5 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	11.5 ppm	N/A	6010/E200.7
06/12/07	Cobalt	3.72 ppm	N/A	6010/E200.7
06/12/07	Cadmium	0.943 ppm	N/A	6010/E200.7
06/12/07	Calcium	7428 ppm	N/A	6010/E200.7
06/12/07	Beryllium	0.229 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Zip:** 11716

**Phone:** (631) 269-8800

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Zip:**

**Phone:**

**JMS ID:** 057161

### Sample's Information:

**Sample ID:** SP15

**Site:** 10-12'

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705807

**Matrix:** Soil

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	72.2 ppm	N/A	6010/E200.7
06/12/07	Arsenic	3.37 ppm	N/A	6010/E200.7
06/12/07	Aluminum	9089 ppm	N/A	6010/E200.7
06/12/07	Silver	0.288 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057162

### Sample's Information:

**Sample ID:** GWSP-1

**Site:** GWSP-1

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705808

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/05/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/05/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/05/07	Freon 113	<5 ppb		EPA 8260
06/05/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/05/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/05/07	Acrylonitrile	<5 ppb		EPA 8260
06/05/07	1,4-dioxane	<5 ppb		EPA 8260
06/05/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/05/07	Total Xylenes	<5 ppb		EPA 8260
06/05/07	2-Hexanone	<5 ppb		EPA 8260
06/05/07	Vinyl Acetate	<5 ppb		EPA 8260
06/05/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/05/07	Carbon disulfide	<5 ppb		EPA 8260
06/05/07	Acetone	<5 ppb		EPA 8260
06/05/07	Vinyl chloride	<5 ppb		EPA 8260
06/05/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/05/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/05/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/05/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/05/07	Trichloroethene	<5 ppb		EPA 8260
06/05/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/05/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/05/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/05/07	Toluene	<5 ppb		EPA 8260
06/05/07	Tetrachloroethene	<5 ppb		EPA 8260
06/05/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/05/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/05/07	Styrene	<5 ppb		EPA 8260
06/05/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057162

### Sample's Information:

**Sample ID:** GWSP-1

**Site:** GWSP-1

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705808

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	Methylene Chloride	<5 ppb		EPA 8260
06/05/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/05/07	Isopropylbenzene	<5 ppb		EPA 8260
06/05/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/05/07	Ethylbenzene	<5 ppb		EPA 8260
06/05/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/05/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/05/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/05/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/05/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/05/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/05/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/05/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/05/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/05/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/05/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	Dibromoethane	<5 ppb		EPA 8260
06/05/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/05/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/05/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/05/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/05/07	Chloromethane	<5 ppb		EPA 8260
06/05/07	Chloroform	<5 ppb		EPA 8260
06/05/07	Chloroethane	<5 ppb		EPA 8260
06/05/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/05/07	Chlorobenzene	<5 ppb		EPA 8260
06/05/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/05/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/05/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057162

### Sample's Information:

**Sample ID:** GWSP-1

**Site:** GWSP-1

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705808

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	Bromomethane	<5 ppb		EPA 8260
06/05/07	Bromoform	<5 ppb		EPA 8260
06/05/07	Bromodichloromethane	<5 ppb		EPA 8260
06/05/07	Bromochloromethane	<5 ppb		EPA 8260
06/05/07	Bromobenzene	<5 ppb		EPA 8260
06/05/07	Benzene	<5 ppb		EPA 8260
06/05/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/05/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/08/07	Dibenzofuran	<11 ppb		EPA 8270
06/08/07	Di-n-octyl phthalate	<11 ppb		EPA 8270
06/08/07	Di-N-Butylphthalate	<11 ppb		EPA 8270
06/08/07	Diethyl Phthalate	<11 ppb		EPA 8270
06/08/07	m-Cresol	<11 ppb		EPA 8270
06/08/07	Benzo(g,h,i)perylene	<11 ppb		EPA 8270
06/08/07	Dibenz(a,h)anthracene	<11 ppb		EPA 8270
06/08/07	Indeno(1,2,3-cd)pyrene	<11 ppb		EPA 8270
06/08/07	Benzo(a)pyrene	<11 ppb		EPA 8270
06/08/07	Benzo(k)fluoranthene	<11 ppb		EPA 8270
06/08/07	Benzo(b)fluoranthene	<11 ppb		EPA 8270
06/08/07	bis(2-ethylhexyl)phthalate	<11 ppb		EPA 8270
06/08/07	Chrysene	<11 ppb		EPA 8270
06/08/07	Benzo(a)anthracene	<11 ppb		EPA 8270
06/08/07	3,3'-Dichlorobenzidine	<11 ppb		EPA 8270
06/08/07	Butyl Benzyl Phthalate	<11 ppb		EPA 8270
06/08/07	Pyrene	<11 ppb		EPA 8270
06/08/07	Fluoranthene	<11 ppb		EPA 8270
06/08/07	Anthracene	<11 ppb		EPA 8270
06/08/07	Phenanthrene	<11 ppb		EPA 8270
06/08/07	Pentachlorophenol	<11 ppb		EPA 8270
06/08/07	4-Bromophenyl Phenyl Ether	<11 ppb		EPA 8270
06/08/07	n-Nitrosodiphenylamine	<11 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057162

### Sample's Information:

**Sample ID:** GWSP-1

**Site:** GWSP-1

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705808

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,6-Dinitro-2-methylphenol	<11 ppb		EPA 8270
06/08/07	4-Nitroaniline	<11 ppb		EPA 8270
06/08/07	4-Chlorophenyl Phenylether	<11 ppb		EPA 8270
06/08/07	Fluorene	<11 ppb		EPA 8270
06/08/07	4-Nitrophenol	<11 ppb		EPA 8270
06/08/07	2,4-Dinitrotoluene	<11 ppb		EPA 8270
06/08/07	2,4-Dinitrophenol	<11 ppb		EPA 8270
06/08/07	3-Nitroaniline	<11 ppb		EPA 8270
06/08/07	Acenaphthene	<11 ppb		EPA 8270
06/08/07	2,6-Dinitrotoluene	<11 ppb		EPA 8270
06/08/07	Dimethyl Phthalate	<11 ppb		EPA 8270
06/08/07	Acenaphthylene	<11 ppb		EPA 8270
06/08/07	2-Nitroaniline	<11 ppb		EPA 8270
06/08/07	2-Chloronaphthalene	<11 ppb		EPA 8270
06/08/07	2,4,5-Trichlorophenol	<11 ppb		EPA 8270
06/08/07	2,4,6-Trichlorophenol	<11 ppb		EPA 8270
06/08/07	Hexachlorocyclopentadiene	<11 ppb		EPA 8270
06/08/07	2-Methylnaphthalene	<11 ppb		EPA 8270
06/08/07	4-Chloro-3-Methylphenol	<11 ppb		EPA 8270
06/08/07	4-Chloroaniline	<11 ppb		EPA 8270
06/08/07	Naphthalene	<11 ppb		EPA 8270
06/08/07	2,4-Dichlorophenol	<11 ppb		EPA 8270
06/08/07	bis(2-Chloroethoxy)methane	<11 ppb		EPA 8270
06/08/07	2,4-Dimethylphenol	<11 ppb		EPA 8270
06/08/07	2-Nitrophenol	<11 ppb		EPA 8270
06/08/07	Isophorone	<11 ppb		EPA 8270
06/08/07	Nitrobenzene	<11 ppb		EPA 8270
06/08/07	4-Methylphenol (p-Cresol)	<11 ppb		EPA 8270
06/08/07	n-Nitrosodi-n-propylamine	<11 ppb		EPA 8270
06/08/07	Hexachloroethane	<11 ppb		EPA 8270
06/08/07	2-Methylphenol (o-Cresol)	<11 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057162

### Sample's Information:

**Sample ID:** GWSP-1

**Site:** GWSP-1

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705808

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	bis(2-Chloroisopropyl) ether	<11 ppb		EPA 8270
06/08/07	2-Chlorophenol	<11 ppb		EPA 8270
06/08/07	Phenols	<11 ppb		EPA 8270
06/08/07	bis(2-Chloroethyl) ether	<11 ppb		EPA 8270
06/08/07	Hexachlorobenzene	<11 ppb		EPA 8270
06/08/07	Aniline	<11 ppb		EPA 8270
06/08/07	Dinitrotoluene(2,4-/2,6-)	<11 ppb		EPA 8270
06/08/07	Benzyl Alcohol	<11 ppb		EPA 8270
06/08/07	Methoxychlor	<0.02 ppb	N/A	EPA 8081
06/08/07	Parathion	<0.3 ppb	N/A	EPA 8081
06/08/07	Mitotane	<0.02 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<0.5 ppb		SW 8082
06/08/07	Arochlor 1260	<0.5 ppb		SW 8082
06/08/07	Arochlor 1254	<0.5 ppb		SW 8082
06/08/07	Arochlor 1248	<0.5 ppb		SW 8082
06/08/07	Arochlor 1242	<0.5 ppb		SW 8082
06/08/07	Arochlor 1232	<0.5 ppb		SW 8082
06/08/07	Arochlor 1221	<0.5 ppb		SW 8082
06/08/07	Arochlor 1016	<0.5 ppb		SW 8082
06/08/07	Endrin Ketone	<0.02 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<1 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<0.02 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<0.02 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<0.02 ppb	N/A	EPA 8081
06/08/07	Endrin	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<0.02 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<0.02 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<0.02 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<0.02 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057162

### Sample's Information:

**Sample ID:** GWSP-1

**Site:** GWSP-1

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705808

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<0.02 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<0.02 ppb	N/A	EPA 8081
06/08/07	g-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	d-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	b-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	a-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	Aldrin	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<0.02 ppb	N/A	EPA 8081
06/05/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	0.367 ppm	N/A	6010/E200.7
06/12/07	Vanadium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Thallium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Selenium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	<0.05 ppm	N/A	6010/E200.7
06/12/07	Lead	<0.05 ppm	N/A	6010/E200.7
06/12/07	Nickel	<0.05 ppm	N/A	6010/E200.7
06/12/07	Sodium	154 ppm	N/A	6010/E200.7
06/12/07	Manganese	8.89 ppm	N/A	6010/E200.7
06/12/07	Magnesium	34.8 ppm	N/A	6010/E200.7
06/12/07	Potassium	51.4 ppm	N/A	6010/E200.7
06/05/07	Mercury (inorganic salts)	<0.005 ppm	N/A	7470/E245.1
06/05/07	Mercury	<0.005 ppm	N/A	7470/E245.1
06/12/07	Iron	0.483 ppm	N/A	6010/E200.7
06/12/07	Copper	<0.05 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	<0.05 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cobalt	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cadmium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Calcium	166 ppm	N/A	6010/E200.7
06/12/07	Beryllium	<0.05 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

**Mailing Information:**

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

**Collector's Information:**

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057162

**Sample's Information:**

**Sample ID:** GWSP-1

**Site:** GWSP-1

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705808

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	0.413 ppm	N/A	6010/E200.7
06/12/07	Arsenic	<0.05 ppm	N/A	6010/E200.7
06/12/07	Aluminum	0.325 ppm	N/A	6010/E200.7
06/12/07	Silver	<0.05 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057163

### Sample's Information:

**Sample ID:** GWSP-2

**Site:** GWSP-2

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705809

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/05/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/05/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/05/07	Freon 113	<5 ppb		EPA 8260
06/05/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/05/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/05/07	Acrylonitrile	<5 ppb		EPA 8260
06/05/07	1,4-dioxane	<5 ppb		EPA 8260
06/05/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/05/07	Total Xylenes	<5 ppb		EPA 8260
06/05/07	2-Hexanone	<5 ppb		EPA 8260
06/05/07	Vinyl Acetate	<5 ppb		EPA 8260
06/05/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/05/07	Carbon disulfide	<5 ppb		EPA 8260
06/05/07	Acetone	<5 ppb		EPA 8260
06/05/07	Vinyl chloride	<5 ppb		EPA 8260
06/05/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/05/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/05/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/05/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/05/07	Trichloroethene	<5 ppb		EPA 8260
06/05/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/05/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/05/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/05/07	Toluene	<5 ppb		EPA 8260
06/05/07	Tetrachloroethene	<5 ppb		EPA 8260
06/05/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/05/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/05/07	Styrene	<5 ppb		EPA 8260
06/05/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057163

### Sample's Information:

**Sample ID:** GWSP-2

**Site:** GWSP-2

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705809

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	Methylene Chloride	<5 ppb		EPA 8260
06/05/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/05/07	Isopropylbenzene	<5 ppb		EPA 8260
06/05/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/05/07	Ethylbenzene	<5 ppb		EPA 8260
06/05/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/05/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/05/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/05/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/05/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/05/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/05/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/05/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/05/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/05/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/05/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	Dibromoethane	<5 ppb		EPA 8260
06/05/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/05/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/05/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/05/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/05/07	Chloromethane	<5 ppb		EPA 8260
06/05/07	Chloroform	<5 ppb		EPA 8260
06/05/07	Chloroethane	<5 ppb		EPA 8260
06/05/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/05/07	Chlorobenzene	<5 ppb		EPA 8260
06/05/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/05/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/05/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057163

### Sample's Information:

**Sample ID:** GWSP-2

**Site:** GWSP-2

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705809

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	Bromomethane	<5 ppb		EPA 8260
06/05/07	Bromoform	<5 ppb		EPA 8260
06/05/07	Bromodichloromethane	<5 ppb		EPA 8260
06/05/07	Bromochloromethane	<5 ppb		EPA 8260
06/05/07	Bromobenzene	<5 ppb		EPA 8260
06/05/07	Benzene	<5 ppb		EPA 8260
06/05/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/05/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/08/07	Dibenzofuran	<20 ppb		EPA 8270
06/08/07	Di-n-octyl phthalate	<20 ppb		EPA 8270
06/08/07	Di-N-Butylphthalate	<20 ppb		EPA 8270
06/08/07	Diethyl Phthalate	<20 ppb		EPA 8270
06/08/07	m-Cresol	<20 ppb		EPA 8270
06/08/07	Benzo(g,h,i)perylene	<20 ppb		EPA 8270
06/08/07	Dibenz(a,h)anthracene	<20 ppb		EPA 8270
06/08/07	Indeno(1,2,3-cd)pyrene	<20 ppb		EPA 8270
06/08/07	Benzo(a)pyrene	<20 ppb		EPA 8270
06/08/07	Benzo(k)fluoranthene	<20 ppb		EPA 8270
06/08/07	Benzo(b)fluoranthene	<20 ppb		EPA 8270
06/08/07	bis(2-ethylhexyl)phthalate	<20 ppb		EPA 8270
06/08/07	Chrysene	<20 ppb		EPA 8270
06/08/07	Benzo(a)anthracene	<20 ppb		EPA 8270
06/08/07	3,3'-Dichlorobenzidine	<20 ppb		EPA 8270
06/08/07	Butyl Benzyl Phthalate	<20 ppb		EPA 8270
06/08/07	Pyrene	<20 ppb		EPA 8270
06/08/07	Fluoranthene	<20 ppb		EPA 8270
06/08/07	Anthracene	<20 ppb		EPA 8270
06/08/07	Phenanthrene	<20 ppb		EPA 8270
06/08/07	Pentachlorophenol	<20 ppb		EPA 8270
06/08/07	4-Bromophenyl Phenyl Ether	<20 ppb		EPA 8270
06/08/07	n-Nitrosodiphenylamine	<20 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057163

### Sample's Information:

**Sample ID:** GWSP-2

**Site:** GWSP-2

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705809

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,6-Dinitro-2-methylphenol	<20 ppb		EPA 8270
06/08/07	4-Nitroaniline	<20 ppb		EPA 8270
06/08/07	4-Chlorophenyl Phenylether	<20 ppb		EPA 8270
06/08/07	Fluorene	<20 ppb		EPA 8270
06/08/07	4-Nitrophenol	<20 ppb		EPA 8270
06/08/07	2,4-Dinitrotoluene	<20 ppb		EPA 8270
06/08/07	2,4-Dinitrophenol	<20 ppb		EPA 8270
06/08/07	3-Nitroaniline	<20 ppb		EPA 8270
06/08/07	Acenaphthene	<20 ppb		EPA 8270
06/08/07	2,6-Dinitrotoluene	<20 ppb		EPA 8270
06/08/07	Dimethyl Phthalate	<20 ppb		EPA 8270
06/08/07	Acenaphthylene	<20 ppb		EPA 8270
06/08/07	2-Nitroaniline	<20 ppb		EPA 8270
06/08/07	2-Chloronaphthalene	<20 ppb		EPA 8270
06/08/07	2,4,5-Trichlorophenol	<20 ppb		EPA 8270
06/08/07	2,4,6-Trichlorophenol	<20 ppb		EPA 8270
06/08/07	Hexachlorocyclopentadiene	<20 ppb		EPA 8270
06/08/07	2-Methylnaphthalene	<20 ppb		EPA 8270
06/08/07	4-Chloro-3-Methylphenol	<20 ppb		EPA 8270
06/08/07	4-Chloroaniline	<20 ppb		EPA 8270
06/08/07	Naphthalene	<20 ppb		EPA 8270
06/08/07	2,4-Dichlorophenol	<20 ppb		EPA 8270
06/08/07	bis(2-Chloroethoxy)methane	<20 ppb		EPA 8270
06/08/07	2,4-Dimethylphenol	<20 ppb		EPA 8270
06/08/07	2-Nitrophenol	<20 ppb		EPA 8270
06/08/07	Isophorone	<20 ppb		EPA 8270
06/08/07	Nitrobenzene	<20 ppb		EPA 8270
06/08/07	4-Methylphenol (p-Cresol)	<20 ppb		EPA 8270
06/08/07	n-Nitrosodi-n-propylamine	<20 ppb		EPA 8270
06/08/07	Hexachloroethane	<20 ppb		EPA 8270
06/08/07	2-Methylphenol (o-Cresol)	<20 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057163

### Sample's Information:

**Sample ID:** GWSP-2

**Site:** GWSP-2

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705809

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	bis(2-Chloroisopropyl) ether	<20 ppb		EPA 8270
06/08/07	2-Chlorophenol	<20 ppb		EPA 8270
06/08/07	Phenols	<20 ppb		EPA 8270
06/08/07	bis(2-Chloroethyl) ether	<20 ppb		EPA 8270
06/08/07	Hexachlorobenzene	<20 ppb		EPA 8270
06/08/07	Aniline	<20 ppb		EPA 8270
06/08/07	Dinitrotoluene(2,4-/2,6-)	<20 ppb		EPA 8270
06/08/07	Benzyl Alcohol	<20 ppb		EPA 8270
06/05/07	Methoxychlor	<0.02 ppb	N/A	EPA 8081
06/05/07	Parathion	<0.3 ppb	N/A	EPA 8081
06/05/07	Mitotane	<0.02 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<0.5 ppb		SW 8082
06/08/07	Arochlor 1260	<0.5 ppb		SW 8082
06/08/07	Arochlor 1254	<0.5 ppb		SW 8082
06/08/07	Arochlor 1248	<0.5 ppb		SW 8082
06/08/07	Arochlor 1242	<0.5 ppb		SW 8082
06/08/07	Arochlor 1232	<0.5 ppb		SW 8082
06/08/07	Arochlor 1221	<0.5 ppb		SW 8082
06/08/07	Arochlor 1016	<0.5 ppb		SW 8082
06/05/07	Endrin Ketone	<0.02 ppb	N/A	EPA 8081
06/05/07	Toxaphene	<1 ppb	N/A	EPA 8081
06/05/07	Heptachlor epoxide	<0.02 ppb	N/A	EPA 8081
06/05/07	Heptachlor	<0.02 ppb	N/A	EPA 8081
06/05/07	Endrin Aldehyde	<0.02 ppb	N/A	EPA 8081
06/05/07	Endrin	<0.02 ppb	N/A	EPA 8081
06/05/07	Endosulfan Sulfate	<0.02 ppb	N/A	EPA 8081
06/05/07	Endosulfan II	<0.02 ppb	N/A	EPA 8081
06/05/07	Endosulfan I	<0.02 ppb	N/A	EPA 8081
06/05/07	Dieldrin	<0.02 ppb	N/A	EPA 8081
06/05/07	4,4'-DDT	<0.02 ppb	N/A	EPA 8081
06/05/07	4,4'-DDE	<0.02 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057163

### Sample's Information:

**Sample ID:** GWSP-2

**Site:** GWSP-2

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705809

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	4,4'-DDD	<0.02 ppb	N/A	EPA 8081
06/05/07	Chlordane, alpha	<0.02 ppb	N/A	EPA 8081
06/05/07	g-BHC	<0.02 ppb	N/A	EPA 8081
06/05/07	d-BHC	<0.02 ppb	N/A	EPA 8081
06/05/07	b-BHC	<0.02 ppb	N/A	EPA 8081
06/05/07	a-BHC	<0.02 ppb	N/A	EPA 8081
06/05/07	Aldrin	<0.02 ppb	N/A	EPA 8081
06/05/07	Endosulfan	<0.02 ppb	N/A	EPA 8081
06/05/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	1.41 ppm	N/A	6010/E200.7
06/12/07	Vanadium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Thallium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Selenium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	<0.05 ppm	N/A	6010/E200.7
06/12/07	Lead	<0.05 ppm	N/A	6010/E200.7
06/12/07	Nickel	0.09 ppm	N/A	6010/E200.7
06/12/07	Sodium	165 ppm	N/A	6010/E200.7
06/12/07	Manganese	4.25 ppm	N/A	6010/E200.7
06/12/07	Magnesium	63 ppm	N/A	6010/E200.7
06/12/07	Potassium	67.5 ppm	N/A	6010/E200.7
06/05/07	Mercury (inorganic salts)	<0.005 ppm	N/A	7470/E245.1
06/05/07	Mercury	<0.005 ppm	N/A	7470/E245.1
06/12/07	Iron	0.593 ppm	N/A	6010/E200.7
06/12/07	Copper	<0.05 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	<0.05 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cobalt	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cadmium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Calcium	285 ppm	N/A	6010/E200.7
06/12/07	Beryllium	<0.05 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

**Mailing Information:**

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

**Collector's Information:**

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057163

**Sample's Information:**

**Sample ID:** GWSP-2

**Site:** GWSP-2

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705809

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	0.06 ppm	N/A	6010/E200.7
06/12/07	Arsenic	<0.05 ppm	N/A	6010/E200.7
06/12/07	Aluminum	0.239 ppm	N/A	6010/E200.7
06/12/07	Silver	<0.05 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057164

### Sample's Information:

**Sample ID:** GWSP-3

**Site:** GWSP-3

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705810

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/05/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/05/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/05/07	Freon 113	<5 ppb		EPA 8260
06/05/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/05/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/05/07	Acrylonitrile	<5 ppb		EPA 8260
06/05/07	1,4-dioxane	<5 ppb		EPA 8260
06/05/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/05/07	Total Xylenes	<5 ppb		EPA 8260
06/05/07	2-Hexanone	<5 ppb		EPA 8260
06/05/07	Vinyl Acetate	<5 ppb		EPA 8260
06/05/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/05/07	Carbon disulfide	<5 ppb		EPA 8260
06/05/07	Acetone	<5 ppb		EPA 8260
06/05/07	Vinyl chloride	<5 ppb		EPA 8260
06/05/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/05/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/05/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/05/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/05/07	Trichloroethene	<5 ppb		EPA 8260
06/05/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/05/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/05/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/05/07	Toluene	<5 ppb		EPA 8260
06/05/07	Tetrachloroethene	<5 ppb		EPA 8260
06/05/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/05/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/05/07	Styrene	<5 ppb		EPA 8260
06/05/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057164

### Sample's Information:

**Sample ID:** GWSP-3

**Site:** GWSP-3

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705810

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	Methylene Chloride	<5 ppb		EPA 8260
06/05/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/05/07	Isopropylbenzene	<5 ppb		EPA 8260
06/05/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/05/07	Ethylbenzene	<5 ppb		EPA 8260
06/05/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/05/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/05/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/05/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/05/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/05/07	cis-1,2-Dichloroethene	<5 ppb		EPA 8260
06/05/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/05/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/05/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/05/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/05/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	Dibromoethane	<5 ppb		EPA 8260
06/05/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/05/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/05/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/05/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/05/07	Chloromethane	<5 ppb		EPA 8260
06/05/07	Chloroform	<5 ppb		EPA 8260
06/05/07	Chloroethane	<5 ppb		EPA 8260
06/05/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/05/07	Chlorobenzene	<5 ppb		EPA 8260
06/05/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/05/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/05/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057164

### Sample's Information:

**Sample ID:** GWSP-3

**Site:** GWSP-3

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705810

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	Bromomethane	<5 ppb		EPA 8260
06/05/07	Bromoform	<5 ppb		EPA 8260
06/05/07	Bromodichloromethane	<5 ppb		EPA 8260
06/05/07	Bromochloromethane	<5 ppb		EPA 8260
06/05/07	Bromobenzene	<5 ppb		EPA 8260
06/05/07	Benzene	<5 ppb		EPA 8260
06/05/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/05/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/05/07	Dibenzofuran	<12 ppb		EPA 8270
06/05/07	Di-n-octyl phthalate	<12 ppb		EPA 8270
06/05/07	Di-N-Butylphthalate	<12 ppb		EPA 8270
06/05/07	Diethyl Phthalate	<12 ppb		EPA 8270
06/05/07	m-Cresol	<12 ppb		EPA 8270
06/05/07	Benzo(g,h,i)perylene	<12 ppb		EPA 8270
06/05/07	Dibenz(a,h)anthracene	<12 ppb		EPA 8270
06/05/07	Indeno(1,2,3-cd)pyrene	<12 ppb		EPA 8270
06/05/07	Benzo(a)pyrene	<12 ppb		EPA 8270
06/05/07	Benzo(k)fluoranthene	<12 ppb		EPA 8270
06/05/07	Benzo(b)fluoranthene	<12 ppb		EPA 8270
06/05/07	bis(2-ethylhexyl)phthalate	<12 ppb		EPA 8270
06/05/07	Chrysene	<12 ppb		EPA 8270
06/05/07	Benzo(a)anthracene	<12 ppb		EPA 8270
06/05/07	3,3'-Dichlorobenzidine	<12 ppb		EPA 8270
06/05/07	Butyl Benzyl Phthalate	<12 ppb		EPA 8270
06/05/07	Pyrene	<12 ppb		EPA 8270
06/05/07	Fluoranthene	<12 ppb		EPA 8270
06/05/07	Anthracene	<12 ppb		EPA 8270
06/05/07	Phenanthrene	<12 ppb		EPA 8270
06/05/07	Pentachlorophenol	<12 ppb		EPA 8270
06/05/07	4-Bromophenyl Phenyl Ether	<12 ppb		EPA 8270
06/05/07	n-Nitrosodiphenylamine	<12 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057164

### Sample's Information:

**Sample ID:** GWSP-3

**Site:** GWSP-3

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705810

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	4,6-Dinitro-2-methylphenol	<12 ppb		EPA 8270
06/05/07	4-Nitroaniline	<12 ppb		EPA 8270
06/05/07	4-Chlorophenyl Phenylether	<12 ppb		EPA 8270
06/05/07	Fluorene	<12 ppb		EPA 8270
06/05/07	4-Nitrophenol	<12 ppb		EPA 8270
06/05/07	2,4-Dinitrotoluene	<12 ppb		EPA 8270
06/05/07	2,4-Dinitrophenol	<12 ppb		EPA 8270
06/05/07	3-Nitroaniline	<12 ppb		EPA 8270
06/05/07	Acenaphthene	<12 ppb		EPA 8270
06/05/07	2,6-Dinitrotoluene	<12 ppb		EPA 8270
06/05/07	Dimethyl Phthalate	<12 ppb		EPA 8270
06/05/07	Acenaphthylene	<12 ppb		EPA 8270
06/05/07	2-Nitroaniline	<12 ppb		EPA 8270
06/05/07	2-Chloronaphthalene	<12 ppb		EPA 8270
06/05/07	2,4,5-Trichlorophenol	<12 ppb		EPA 8270
06/05/07	2,4,6-Trichlorophenol	<12 ppb		EPA 8270
06/05/07	Hexachlorocyclopentadiene	<12 ppb		EPA 8270
06/05/07	2-Methylnaphthalene	<12 ppb		EPA 8270
06/05/07	4-Chloro-3-Methylphenol	<12 ppb		EPA 8270
06/05/07	4-Chloroaniline	<12 ppb		EPA 8270
06/05/07	Naphthalene	<12 ppb		EPA 8270
06/05/07	2,4-Dichlorophenol	<12 ppb		EPA 8270
06/05/07	bis(2-Chloroethoxy)methane	<12 ppb		EPA 8270
06/05/07	2,4-Dimethylphenol	<12 ppb		EPA 8270
06/05/07	2-Nitrophenol	<12 ppb		EPA 8270
06/05/07	Isophorone	<12 ppb		EPA 8270
06/05/07	Nitrobenzene	<12 ppb		EPA 8270
06/05/07	4-Methylphenol (p-Cresol)	<12 ppb		EPA 8270
06/05/07	n-Nitrosodi-n-propylamine	<12 ppb		EPA 8270
06/05/07	Hexachloroethane	<12 ppb		EPA 8270
06/05/07	2-Methylphenol (o-Cresol)	<12 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057164

### Sample's Information:

**Sample ID:** GWSP-3

**Site:** GWSP-3

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705810

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	bis(2-Chloroisopropyl) ether	<12 ppb		EPA 8270
06/05/07	2-Chlorophenol	<12 ppb		EPA 8270
06/05/07	Phenols	<12 ppb		EPA 8270
06/05/07	bis(2-Chloroethyl) ether	<12 ppb		EPA 8270
06/05/07	Hexachlorobenzene	<12 ppb		EPA 8270
06/05/07	Aniline	<12 ppb		EPA 8270
06/05/07	Dinitrotoluene(2,4-/2,6-)	<12 ppb		EPA 8270
06/05/07	Benzyl Alcohol	<12 ppb		EPA 8270
06/08/07	Methoxychlor	<0.02 ppb	N/A	EPA 8081
06/08/07	Parathion	<0.3 ppb	N/A	EPA 8081
06/08/07	Mitotane	<0.02 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<0.5 ppb		SW 8082
06/08/07	Arochlor 1260	<0.5 ppb		SW 8082
06/08/07	Arochlor 1254	<0.5 ppb		SW 8082
06/08/07	Arochlor 1248	<0.5 ppb		SW 8082
06/08/07	Arochlor 1242	<0.5 ppb		SW 8082
06/08/07	Arochlor 1232	<0.5 ppb		SW 8082
06/08/07	Arochlor 1221	<0.5 ppb		SW 8082
06/08/07	Arochlor 1016	<0.5 ppb		SW 8082
06/08/07	Endrin Ketone	<0.02 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<1 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<0.02 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<0.02 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<0.02 ppb	N/A	EPA 8081
06/08/07	Endrin	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<0.02 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<0.02 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<0.02 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<0.02 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057164

### Sample's Information:

**Sample ID:** GWSP-3

**Site:** GWSP-3

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705810

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<0.02 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<0.02 ppb	N/A	EPA 8081
06/08/07	g-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	d-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	b-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	a-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	Aldrin	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<0.02 ppb	N/A	EPA 8081
06/05/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	0.07 ppm	N/A	6010/E200.7
06/12/07	Vanadium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Thallium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Selenium	0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	<0.05 ppm	N/A	6010/E200.7
06/12/07	Lead	<0.05 ppm	N/A	6010/E200.7
06/12/07	Nickel	0.06 ppm	N/A	6010/E200.7
06/12/07	Sodium	221 ppm	N/A	6010/E200.7
06/12/07	Manganese	15.4 ppm	N/A	6010/E200.7
06/12/07	Magnesium	114 ppm	N/A	6010/E200.7
06/12/07	Potassium	53.7 ppm	N/A	6010/E200.7
06/05/07	Mercury (inorganic salts)	<0.005 ppm	N/A	7470/E245.1
06/05/07	Mercury	<0.005 ppm	N/A	7470/E245.1
06/12/07	Iron	1.57 ppm	N/A	6010/E200.7
06/12/07	Copper	0.129 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	<0.05 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cobalt	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cadmium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Calcium	419 ppm	N/A	6010/E200.7
06/12/07	Beryllium	<0.05 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057164

### Sample's Information:

**Sample ID:** GWSP-3

**Site:** GWSP-3

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705810

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	0.09 ppm	N/A	6010/E200.7
06/12/07	Arsenic	<0.05 ppm	N/A	6010/E200.7
06/12/07	Aluminum	0.279 ppm	N/A	6010/E200.7
06/12/07	Silver	<0.05 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**

*Michael Lapman*

Michael Lapman

President

**Reviewed By:**

*Sharon Houlahan*

Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057165

### Sample's Information:

**Sample ID:** GWSP-4

**Site:** GWSP-4

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705811

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/08/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/08/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/08/07	Freon 113	<5 ppb		EPA 8260
06/08/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/08/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/08/07	Acrylonitrile	<5 ppb		EPA 8260
06/08/07	1,4-dioxane	<5 ppb		EPA 8260
06/08/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/08/07	Total Xylenes	<5 ppb		EPA 8260
06/08/07	2-Hexanone	<5 ppb		EPA 8260
06/08/07	Vinyl Acetate	<5 ppb		EPA 8260
06/08/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/08/07	Carbon disulfide	<5 ppb		EPA 8260
06/08/07	Acetone	<5 ppb		EPA 8260
06/08/07	Vinyl chloride	<5 ppb		EPA 8260
06/08/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/08/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/08/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/08/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/08/07	Trichloroethene	<5 ppb		EPA 8260
06/08/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/08/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/08/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/08/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/08/07	Toluene	<5 ppb		EPA 8260
06/08/07	Tetrachloroethene	<5 ppb		EPA 8260
06/08/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/08/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/08/07	Styrene	<5 ppb		EPA 8260
06/08/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057165

### Sample's Information:

**Sample ID:** GWSP-4

**Site:** GWSP-4

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705811

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	Methylene Chloride	<5 ppb		EPA 8260
06/08/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/08/07	Isopropylbenzene	<5 ppb		EPA 8260
06/08/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/08/07	Ethylbenzene	<5 ppb		EPA 8260
06/08/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/08/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/08/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/08/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/08/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/08/07	cis-1,2-Dichloroethene	201 ppb		EPA 8260
06/08/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/08/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/08/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/08/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/08/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/08/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/08/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/08/07	Dibromoethane	<5 ppb		EPA 8260
06/08/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/08/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/08/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/08/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/08/07	Chloromethane	<5 ppb		EPA 8260
06/08/07	Chloroform	<5 ppb		EPA 8260
06/08/07	Chloroethane	<5 ppb		EPA 8260
06/08/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/08/07	Chlorobenzene	<5 ppb		EPA 8260
06/08/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/08/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/08/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057165

### Sample's Information:

**Sample ID:** GWSP-4

**Site:** GWSP-4

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705811

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	Bromomethane	<5 ppb		EPA 8260
06/08/07	Bromoform	<5 ppb		EPA 8260
06/08/07	Bromodichloromethane	<5 ppb		EPA 8260
06/08/07	Bromochloromethane	<5 ppb		EPA 8260
06/08/07	Bromobenzene	<5 ppb		EPA 8260
06/08/07	Benzene	<5 ppb		EPA 8260
06/08/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/08/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/08/07	Dibenzofuran	<11 ppb		EPA 8270
06/08/07	Di-n-octyl phthalate	<11 ppb		EPA 8270
06/08/07	Di-N-Butylphthalate	<11 ppb		EPA 8270
06/08/07	Diethyl Phthalate	<11 ppb		EPA 8270
06/08/07	m-Cresol	<11 ppb		EPA 8270
06/08/07	Benzo(g,h,i)perylene	<11 ppb		EPA 8270
06/08/07	Dibenz(a,h)anthracene	<11 ppb		EPA 8270
06/08/07	Indeno(1,2,3-cd)pyrene	<11 ppb		EPA 8270
06/08/07	Benzo(a)pyrene	<11 ppb		EPA 8270
06/08/07	Benzo(k)fluoranthene	<11 ppb		EPA 8270
06/08/07	Benzo(b)fluoranthene	<11 ppb		EPA 8270
06/08/07	bis(2-ethylhexyl)phthalate	<11 ppb		EPA 8270
06/08/07	Chrysene	<11 ppb		EPA 8270
06/08/07	Benzo(a)anthracene	<11 ppb		EPA 8270
06/08/07	3,3'-Dichlorobenzidine	<11 ppb		EPA 8270
06/08/07	Butyl Benzyl Phthalate	<11 ppb		EPA 8270
06/08/07	Pyrene	<11 ppb		EPA 8270
06/08/07	Fluoranthene	<11 ppb		EPA 8270
06/08/07	Anthracene	<11 ppb		EPA 8270
06/08/07	Phenanthrene	18 ppb		EPA 8270
06/08/07	Pentachlorophenol	<11 ppb		EPA 8270
06/08/07	4-Bromophenyl Phenyl Ether	<11 ppb		EPA 8270
06/08/07	n-Nitrosodiphenylamine	<11 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057165

### Sample's Information:

**Sample ID:** GWSP-4

**Site:** GWSP-4

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705811

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,6-Dinitro-2-methylphenol	<11 ppb		EPA 8270
06/08/07	4-Nitroaniline	<11 ppb		EPA 8270
06/08/07	4-Chlorophenyl Phenylether	<11 ppb		EPA 8270
06/08/07	Fluorene	<11 ppb		EPA 8270
06/08/07	4-Nitrophenol	<11 ppb		EPA 8270
06/08/07	2,4-Dinitrotoluene	<11 ppb		EPA 8270
06/08/07	2,4-Dinitrophenol	<11 ppb		EPA 8270
06/08/07	3-Nitroaniline	<11 ppb		EPA 8270
06/08/07	Acenaphthene	<11 ppb		EPA 8270
06/08/07	2,6-Dinitrotoluene	<11 ppb		EPA 8270
06/08/07	Dimethyl Phthalate	<11 ppb		EPA 8270
06/08/07	Acenaphthylene	<11 ppb		EPA 8270
06/08/07	2-Nitroaniline	<11 ppb		EPA 8270
06/08/07	2-Chloronaphthalene	<11 ppb		EPA 8270
06/08/07	2,4,5-Trichlorophenol	<11 ppb		EPA 8270
06/08/07	2,4,6-Trichlorophenol	<11 ppb		EPA 8270
06/08/07	Hexachlorocyclopentadiene	<11 ppb		EPA 8270
06/08/07	2-Methylnaphthalene	35 ppb		EPA 8270
06/08/07	4-Chloro-3-Methylphenol	<11 ppb		EPA 8270
06/08/07	4-Chloroaniline	<11 ppb		EPA 8270
06/08/07	Naphthalene	<11 ppb		EPA 8270
06/08/07	2,4-Dichlorophenol	<11 ppb		EPA 8270
06/08/07	bis(2-Chloroethoxy)methane	<11 ppb		EPA 8270
06/08/07	2,4-Dimethylphenol	<11 ppb		EPA 8270
06/08/07	2-Nitrophenol	<11 ppb		EPA 8270
06/08/07	Isophorone	<11 ppb		EPA 8270
06/08/07	Nitrobenzene	<11 ppb		EPA 8270
06/08/07	4-Methylphenol (p-Cresol)	<11 ppb		EPA 8270
06/08/07	n-Nitrosodi-n-propylamine	<11 ppb		EPA 8270
06/08/07	Hexachloroethane	<11 ppb		EPA 8270
06/08/07	2-Methylphenol (o-Cresol)	<11 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057165

### Sample's Information:

**Sample ID:** GWSP-4

**Site:** GWSP-4

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705811

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	bis(2-Chloroisopropyl) ether	<11 ppb		EPA 8270
06/08/07	2-Chlorophenol	<11 ppb		EPA 8270
06/08/07	Phenols	<11 ppb		EPA 8270
06/08/07	bis(2-Chloroethyl) ether	<11 ppb		EPA 8270
06/08/07	Hexachlorobenzene	<11 ppb		EPA 8270
06/08/07	Aniline	<11 ppb		EPA 8270
06/08/07	Dinitrotoluene(2,4-/2,6-)	<11 ppb		EPA 8270
06/08/07	Benzyl Alcohol	<11 ppb		EPA 8270
06/08/07	Methoxychlor	<0.02 ppb	N/A	EPA 8081
06/08/07	Parathion	<0.02 ppb	N/A	EPA 8081
06/08/07	Mitotane	<0.02 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<0.5 ppb		SW 8082
06/08/07	Arochlor 1260	<0.5 ppb		SW 8082
06/08/07	Arochlor 1254	<0.5 ppb		SW 8082
06/08/07	Arochlor 1248	<0.5 ppb		SW 8082
06/08/07	Arochlor 1242	<0.5 ppb		SW 8082
06/08/07	Arochlor 1232	<0.5 ppb		SW 8082
06/08/07	Arochlor 1221	<0.5 ppb		SW 8082
06/08/07	Arochlor 1016	<0.5 ppb		SW 8082
06/08/07	Endrin Ketone	<0.02 ppb	N/A	EPA 8081
06/08/07	Toxaphene	<0.02 ppb	N/A	EPA 8081
06/08/07	Heptachlor epoxide	<0.02 ppb	N/A	EPA 8081
06/08/07	Heptachlor	<0.02 ppb	N/A	EPA 8081
06/08/07	Endrin Aldehyde	<0.02 ppb	N/A	EPA 8081
06/08/07	Endrin	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan Sulfate	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan II	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan I	<0.02 ppb	N/A	EPA 8081
06/08/07	Dieldrin	<0.02 ppb	N/A	EPA 8081
06/08/07	4,4'-DDT	<0.02 ppb	N/A	EPA 8081
06/08/07	4,4'-DDE	<0.02 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057165

### Sample's Information:

**Sample ID:** GWSP-4

**Site:** GWSP-4

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705811

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/08/07	4,4'-DDD	<0.02 ppb	N/A	EPA 8081
06/08/07	Chlordane, alpha	<0.02 ppb	N/A	EPA 8081
06/08/07	g-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	d-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	b-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	a-BHC	<0.02 ppb	N/A	EPA 8081
06/08/07	Aldrin	<0.02 ppb	N/A	EPA 8081
06/08/07	Endosulfan	<0.02 ppb	N/A	EPA 8081
06/08/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	0.301 ppm	N/A	6010/E200.7
06/12/07	Vanadium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Thallium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Selenium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	<0.05 ppm	N/A	6010/E200.7
06/12/07	Lead	<0.05 ppm	N/A	6010/E200.7
06/12/07	Nickel	<0.05 ppm	N/A	6010/E200.7
06/12/07	Sodium	121 ppm	N/A	6010/E200.7
06/12/07	Manganese	6.31 ppm	N/A	6010/E200.7
06/12/07	Magnesium	52.3 ppm	N/A	6010/E200.7
06/12/07	Potassium	20.4 ppm	N/A	6010/E200.7
06/08/07	Mercury (inorganic salts)	<0.005 ppm	N/A	7470/E245.1
06/08/07	Mercury	<0.005 ppm	N/A	7470/E245.1
06/12/07	Iron	1.7 ppm	N/A	6010/E200.7
06/12/07	Copper	<0.05 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	<0.05 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cobalt	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cadmium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Calcium	186 ppm	N/A	6010/E200.7
06/12/07	Beryllium	<0.05 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

### Impact Environmental: 07-124.1

**Mailing Information:**

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

**Collector's Information:**

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057165

**Sample's Information:**

**Sample ID:** GWSP-4

**Site:** GWSP-4

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705811

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	0.309 ppm	N/A	6010/E200.7
06/12/07	Arsenic	<0.05 ppm	N/A	6010/E200.7
06/12/07	Aluminum	0.416 ppm	N/A	6010/E200.7
06/12/07	Silver	<0.05 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**



Michael Lapman  
President

**Reviewed By:**



Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057166

### Sample's Information:

**Sample ID:** GWSP-5

**Site:** GWSP-5

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705812

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	p-Diethylbenzene	<5 ppb		EPA 8260
06/05/07	trans-1,3-Dichloropropene	<5 ppb		EPA 8260
06/05/07	cis-1,3-Dichloropropene	<5 ppb		EPA 8260
06/05/07	Freon 113	<5 ppb		EPA 8260
06/05/07	p-Ethyltoluene	<5 ppb		EPA 8260
06/05/07	Methyl isobutyl ketone (MIBK)	<5 ppb		EPA 8260
06/05/07	Acrylonitrile	<5 ppb		EPA 8260
06/05/07	1,4-dioxane	<5 ppb		EPA 8260
06/05/07	Methyl-tert-butyl-ether	<5 ppb		EPA 8260
06/05/07	Total Xylenes	<5 ppb		EPA 8260
06/05/07	2-Hexanone	<5 ppb		EPA 8260
06/05/07	Vinyl Acetate	<5 ppb		EPA 8260
06/05/07	2-Butanone (MEK)	<5 ppb		EPA 8260
06/05/07	Carbon disulfide	<5 ppb		EPA 8260
06/05/07	Acetone	<5 ppb		EPA 8260
06/05/07	Vinyl chloride	<5 ppb		EPA 8260
06/05/07	1,2,4-Trimethylbenzene	<5 ppb		EPA 8260
06/05/07	1,3,5-Trimethylbenzene	<5 ppb		EPA 8260
06/05/07	1,2,3-Trichloropropane	<5 ppb		EPA 8260
06/05/07	Trichlorofluoromethane	<5 ppb		EPA 8260
06/05/07	Trichloroethene	<5 ppb		EPA 8260
06/05/07	1,1,2-Trichloroethane	<5 ppb		EPA 8260
06/05/07	1,1,1-Trichloroethane	<5 ppb		EPA 8260
06/05/07	1,2,4-Trichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,2,3-Trichlorobenzene	<5 ppb		EPA 8260
06/05/07	Toluene	<5 ppb		EPA 8260
06/05/07	Tetrachloroethene	<5 ppb		EPA 8260
06/05/07	1,1,2,2-Tetrachloroethane	<5 ppb		EPA 8260
06/05/07	1,1,1,2-tetrachloroethane	<5 ppb		EPA 8260
06/05/07	Styrene	<5 ppb		EPA 8260
06/05/07	n-Propylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057166

### Sample's Information:

**Sample ID:** GWSP-5

**Site:** GWSP-5

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705812

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	Methylene Chloride	<5 ppb		EPA 8260
06/05/07	p-Isopropyltoluene	<5 ppb		EPA 8260
06/05/07	Isopropylbenzene	<5 ppb		EPA 8260
06/05/07	Hexachlorobutadiene	<5 ppb		EPA 8260
06/05/07	Ethylbenzene	<5 ppb		EPA 8260
06/05/07	1,1-Dichloropropene	<5 ppb		EPA 8260
06/05/07	2,2-Dichloropropane	<5 ppb		EPA 8260
06/05/07	1,3-Dichloropropane	<5 ppb		EPA 8260
06/05/07	1,2-Dichloropropane	<5 ppb		EPA 8260
06/05/07	trans-1,2-Dichloroethene	<5 ppb		EPA 8260
06/05/07	cis-1,2-Dichloroethene	14 ppb		EPA 8260
06/05/07	1,1-Dichloroethene	<5 ppb		EPA 8260
06/05/07	1,2-Dichloroethane	<5 ppb		EPA 8260
06/05/07	1,1-Dichloroethane	<5 ppb		EPA 8260
06/05/07	Dichlorodifluoromethane	<5 ppb		EPA 8260
06/05/07	1,4-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,3-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	1,2-Dichlorobenzene	<5 ppb		EPA 8260
06/05/07	Dibromoethane	<5 ppb		EPA 8260
06/05/07	1,2-Dibromoethane	<5 ppb		EPA 8260
06/05/07	1,2-Dibromo-3-Chloropropane	<5 ppb		EPA 8260
06/05/07	4-Chlorotoluene	<5 ppb		EPA 8260
06/05/07	2-Chlorotoluene	<5 ppb		EPA 8260
06/05/07	Chloromethane	<5 ppb		EPA 8260
06/05/07	Chloroform	<5 ppb		EPA 8260
06/05/07	Chloroethane	<5 ppb		EPA 8260
06/05/07	Chlorodibromomethane	<5 ppb		EPA 8260
06/05/07	Chlorobenzene	<5 ppb		EPA 8260
06/05/07	Carbon tetrachloride	<5 ppb		EPA 8260
06/05/07	sec-Butylbenzene	<5 ppb		EPA 8260
06/05/07	n-Butylbenzene	<5 ppb		EPA 8260

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057166

### Sample's Information:

**Sample ID:** GWSP-5

**Site:** GWSP-5

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705812

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	Bromomethane	<5 ppb		EPA 8260
06/05/07	Bromoform	<5 ppb		EPA 8260
06/05/07	Bromodichloromethane	<5 ppb		EPA 8260
06/05/07	Bromochloromethane	<5 ppb		EPA 8260
06/05/07	Bromobenzene	<5 ppb		EPA 8260
06/05/07	Benzene	<5 ppb		EPA 8260
06/05/07	1,2,4,5-tetramethylbenzene	<5 ppb		EPA 8260
06/05/07	1,3-Dichloropropene(cis and tran	<5 ppb		EPA 8260
06/05/07	Dibenzofuran	<11 ppb		EPA 8270
06/05/07	Di-n-octyl phthalate	<11 ppb		EPA 8270
06/05/07	Di-N-Butylphthalate	<11 ppb		EPA 8270
06/05/07	Diethyl Phthalate	<11 ppb		EPA 8270
06/05/07	m-Cresol	<11 ppb		EPA 8270
06/05/07	Benzo(g,h,i)perylene	<11 ppb		EPA 8270
06/05/07	Dibenz(a,h)anthracene	<11 ppb		EPA 8270
06/05/07	Indeno(1,2,3-cd)pyrene	<11 ppb		EPA 8270
06/05/07	Benzo(a)pyrene	<11 ppb		EPA 8270
06/05/07	Benzo(k)fluoranthene	<11 ppb		EPA 8270
06/05/07	Benzo(b)fluoranthene	<11 ppb		EPA 8270
06/05/07	bis(2-ethylhexyl)phthalate	<11 ppb		EPA 8270
06/05/07	Chrysene	<11 ppb		EPA 8270
06/05/07	Benzo(a)anthracene	<11 ppb		EPA 8270
06/05/07	3,3'-Dichlorobenzidine	<11 ppb		EPA 8270
06/05/07	Butyl Benzyl Phthalate	<11 ppb		EPA 8270
06/05/07	Pyrene	<11 ppb		EPA 8270
06/05/07	Fluoranthene	<11 ppb		EPA 8270
06/05/07	Anthracene	<11 ppb		EPA 8270
06/05/07	Phenanthrene	<11 ppb		EPA 8270
06/05/07	Pentachlorophenol	<11 ppb		EPA 8270
06/05/07	4-Bromophenyl Phenyl Ether	<11 ppb		EPA 8270
06/05/07	n-Nitrosodiphenylamine	<11 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAP CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057166

### Sample's Information:

**Sample ID:** GWSP-5

**Site:** GWSP-5

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705812

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	4,6-Dinitro-2-methylphenol	<11 ppb		EPA 8270
06/05/07	4-Nitroaniline	<11 ppb		EPA 8270
06/05/07	4-Chlorophenyl Phenylether	<11 ppb		EPA 8270
06/05/07	Fluorene	<11 ppb		EPA 8270
06/05/07	4-Nitrophenol	<11 ppb		EPA 8270
06/05/07	2,4-Dinitrotoluene	<11 ppb		EPA 8270
06/05/07	2,4-Dinitrophenol	<11 ppb		EPA 8270
06/05/07	3-Nitroaniline	<11 ppb		EPA 8270
06/05/07	Acenaphthene	<11 ppb		EPA 8270
06/05/07	2,6-Dinitrotoluene	<11 ppb		EPA 8270
06/05/07	Dimethyl Phthalate	<11 ppb		EPA 8270
06/05/07	Acenaphthylene	<11 ppb		EPA 8270
06/05/07	2-Nitroaniline	<11 ppb		EPA 8270
06/05/07	2-Chloronaphthalene	<11 ppb		EPA 8270
06/05/07	2,4,5-Trichlorophenol	<11 ppb		EPA 8270
06/05/07	2,4,6-Trichlorophenol	<11 ppb		EPA 8270
06/05/07	Hexachlorocyclopentadiene	<11 ppb		EPA 8270
06/05/07	2-Methylnaphthalene	<11 ppb		EPA 8270
06/05/07	4-Chloro-3-Methylphenol	<11 ppb		EPA 8270
06/05/07	4-Chloroaniline	<11 ppb		EPA 8270
06/05/07	Naphthalene	<11 ppb		EPA 8270
06/05/07	2,4-Dichlorophenol	<11 ppb		EPA 8270
06/05/07	bis(2-Chloroethoxy)methane	<11 ppb		EPA 8270
06/05/07	2,4-Dimethylphenol	<11 ppb		EPA 8270
06/05/07	2-Nitrophenol	<11 ppb		EPA 8270
06/05/07	Isophorone	<11 ppb		EPA 8270
06/05/07	Nitrobenzene	<11 ppb		EPA 8270
06/05/07	4-Methylphenol (p-Cresol)	<11 ppb		EPA 8270
06/05/07	n-Nitrosodi-n-propylamine	<11 ppb		EPA 8270
06/05/07	Hexachloroethane	<11 ppb		EPA 8270
06/05/07	2-Methylphenol (o-Cresol)	<11 ppb		EPA 8270

CONNECTICUT, NEW YORK AND NELAC CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057166

### Sample's Information:

**Sample ID:** GWSP-5

**Site:** GWSP-5

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705812

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	bis(2-Chloroisopropyl) ether	<11 ppb		EPA 8270
06/05/07	2-Chlorophenol	<11 ppb		EPA 8270
06/05/07	Phenols	<11 ppb		EPA 8270
06/05/07	bis(2-Chloroethyl) ether	<11 ppb		EPA 8270
06/05/07	Hexachlorobenzene	<11 ppb		EPA 8270
06/05/07	Aniline	<11 ppb		EPA 8270
06/05/07	Dinitrotoluene(2,4-/2,6-)	<11 ppb		EPA 8270
06/05/07	Benzyl Alcohol	<11 ppb		EPA 8270
06/05/07	Methoxychlor	0.02 ppb	N/A	EPA 8081
06/05/07	Parathion	0.02 ppb	N/A	EPA 8081
06/05/07	Mitotane	0.02 ppb	N/A	EPA 8081
06/08/07	Polychlorinated biphenyls (PCBs)	<0.5 ppb		SW 8082
06/08/07	Arochlor 1260	<0.5 ppb		SW 8082
06/08/07	Arochlor 1254	<0.5 ppb		SW 8082
06/08/07	Arochlor 1248	<0.5 ppb		SW 8082
06/08/07	Arochlor 1242	<0.5 ppb		SW 8082
06/08/07	Arochlor 1232	<0.5 ppb		SW 8082
06/08/07	Arochlor 1221	<0.5 ppb		SW 8082
06/08/07	Arochlor 1016	<0.5 ppb		SW 8082
06/05/07	Endrin Ketone	0.02 ppb	N/A	EPA 8081
06/05/07	Toxaphene	0.02 ppb	N/A	EPA 8081
06/05/07	Heptachlor epoxide	0.02 ppb	N/A	EPA 8081
06/05/07	Heptachlor	0.02 ppb	N/A	EPA 8081
06/05/07	Endrin Aldehyde	0.02 ppb	N/A	EPA 8081
06/05/07	Endrin	0.02 ppb	N/A	EPA 8081
06/05/07	Endosulfan Sulfate	0.02 ppb	N/A	EPA 8081
06/05/07	Endosulfan II	0.02 ppb	N/A	EPA 8081
06/05/07	Endosulfan I	0.02 ppb	N/A	EPA 8081
06/05/07	Dieldrin	0.02 ppb	N/A	EPA 8081
06/05/07	4,4'-DDT	0.02 ppb	N/A	EPA 8081
06/05/07	4,4'-DDE	0.02 ppb	N/A	EPA 8081

CONNECTICUT, NEW YORK AND NELAP CERTIFIED



## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057166

### Sample's Information:

**Sample ID:** GWSP-5

**Site:** GWSP-5

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705812

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/05/07	4,4'-DDD	0.02 ppb	N/A	EPA 8081
06/05/07	Chlordane, alpha	0.02 ppb	N/A	EPA 8081
06/05/07	g-BHC	0.02 ppb	N/A	EPA 8081
06/05/07	d-BHC	0.02 ppb	N/A	EPA 8081
06/05/07	b-BHC	0.02 ppb	N/A	EPA 8081
06/05/07	a-BHC	0.02 ppb	N/A	EPA 8081
06/05/07	Aldrin	0.02 ppb	N/A	EPA 8081
06/05/07	Endosulfan	0.02 ppb	N/A	EPA 8081
06/05/07	Cyanide	<0.2 ppm	0.2 ppm	9010/335.3
06/12/07	Zinc	0.09 ppm	N/A	6010/E200.7
06/12/07	Vanadium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Thallium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Selenium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Antimony	<0.05 ppm	N/A	6010/E200.7
06/12/07	Lead	<0.05 ppm	N/A	6010/E200.7
06/12/07	Nickel	<0.05 ppm	N/A	6010/E200.7
06/12/07	Sodium	136 ppm	N/A	6010/E200.7
06/12/07	Manganese	2.71 ppm	N/A	6010/E200.7
06/12/07	Magnesium	45.7 ppm	N/A	6010/E200.7
06/12/07	Potassium	43.1 ppm	N/A	6010/E200.7
06/05/07	Mercury (inorganic salts)	<0.005 ppm	N/A	7470/E245.1
06/05/07	Mercury	<0.005 ppm	N/A	7470/E245.1
06/12/07	Iron	2.09 ppm	N/A	6010/E200.7
06/12/07	Copper	0.387 ppm	N/A	6010/E200.7
06/12/07	Chromium, Trivalent	<0.05 ppm	N/A	6010/E200.7
06/12/07	Chromium Hexavalent	<0.52 ppm	N/A	6010/E200.7
06/12/07	Chromium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cobalt	<0.05 ppm	N/A	6010/E200.7
06/12/07	Cadmium	<0.05 ppm	N/A	6010/E200.7
06/12/07	Calcium	285 ppm	N/A	6010/E200.7
06/12/07	Beryllium	<0.05 ppm	N/A	6010/E200.7

CONNECTICUT, NEW YORK AND NELAC CERTIFIED

## Impact Environmental: 07-124.1

### Mailing Information:

**Name:** Impact Environmental

**Address:** 170 Keyland Ct

**City:** Bohemia

**State:** NY

**Phone:** (631) 269-8800

**Zip:** 11716

**Fax:** (631) 269-1599

### Collector's Information:

**Name:** James C.

**Address of site:** 505 W. 27th St

**City:** New York

**State:** NY

**Phone:**

**Zip:**

**JMS ID:** 057166

### Sample's Information:

**Sample ID:** GWSP-5

**Site:** GWSP-5

**Date Collected:** 6/1/2007

**Date Received:** 6/2/2007

**Preservative:**

**Time Collected:** 12:00:00 PM

**Time Received:** 9:00:00 AM

**Temperature:**

**Lab No.:** J0705812

**Matrix:** Water

Date Analyzed	Test Name	Result	MCL	Method
06/12/07	Barium	0.102 ppm	N/A	6010/E200.7
06/12/07	Arsenic	<0.05 ppm	N/A	6010/E200.7
06/12/07	Aluminum	0.249 ppm	N/A	6010/E200.7
06/12/07	Silver	<0.05 ppm	N/A	6010/E200.7

MCL = Maximum Contaminant Level

N/A = Not Applicable

ppb = parts per billion

ppm = parts per million

**Signature:**

*Michael Lapman*

Michael Lapman  
President

**Reviewed By:**

*Sharon Houlahan*

Sharon Houlahan, Director

**State #:** PH-0218 **ELAP #:** 11715

**Ref Lab:** 11301,

## **APPENDIX C**

---

ELM ENGINEERING  
SUPPLEMENTAL SITE  
INVESTIGATION

**SUPPLEMENTAL SITE INVESTIGATION REPORT**

**For the Property Located at 505 W27th Street  
New York, NY 10001**

Prepared for:

The Related Companies  
60 Columbus Circle  
New York, NY 10023

September 5, 2012

Prepared by:

ELM Engineering, P.C.  
267 Broadway, 5<sup>th</sup> Floor  
New York, NY 10007

---

Alana Brannon  
Managing Scientist

Reviewed by:

---

Kevin McCarty  
Principal

## **DISCLAIMER**

ELM Engineering, P.C. (ELM Engineering) has prepared this report based upon a review of information provided by the client as well as information collected and/or developed as part of the specific scope of work under this project. The report was prepared for the exclusive use of the client of record for the stated objectives relative to the subject property. No other warranty, express or implied, is made.

ELM Engineering does not purport to give legal advice. Any reference to legal issues or terms is provided as part of the general environmental risk assessment and is not a substitute for the advice of competent legal counsel.

## TABLE OF CONTENTS

<b>DISCLAIMER .....</b>	<b>ii</b>
<b>LIST OF FIGURES.....</b>	<b>iv</b>
<b>LIST OF TABLES.....</b>	<b>v</b>
<b>LIST OF APPENDICES.....</b>	<b>vi</b>
<b>1. INTRODUCTION .....</b>	<b>1</b>
<b>2. SITE BACKGROUND AND SUBSURFACE CONDITIONS .....</b>	<b>2</b>
2.1. Site Description.....	2
2.2. Site History.....	2
2.3. Geology and Hydrogeology.....	3
2.3.1. Geology.....	3
2.3.2. Hydrogeology.....	3
<b>3. FIELD ACTIVITIES.....</b>	<b>4</b>
3.1. Concrete Coring.....	4
3.2. Soil Boring Installation and Soil Sampling.....	4
3.3. Monitoring Well Installation and Groundwater Sampling.....	5
3.4. Soil Vapor Point Installation and Soil Vapor Sampling.....	6
<b>4. SUMMARY OF RESULTS .....</b>	<b>7</b>
4.1. Soil.....	7
4.1.1. Applicable Regulatory Standards for Soil.....	7
4.1.2. Soil Results.....	7
4.2. Groundwater .....	8
4.2.1. Applicable Regulatory Standards for Groundwater .....	8
4.2.2. Groundwater Results.....	8
4.3. Soil Vapor .....	9
4.3.1. Applicable Regulatory Standards for Groundwater .....	9
4.3.2. Soil Vapor Results .....	9
4.3.3. Discussion of NYSDOH Soil Vapor Guidance Matrices.....	9
<b>5. CONCEPTUAL SITE MODEL.....</b>	<b>10</b>
<b>6. REFERENCES.....</b>	<b>12</b>

## **LIST OF FIGURES**

- Figure 1: Site Location Map
- Figure 2: Site Plan with Sample Locations
- Figure 3: ELM Groundwater Sample Results Map
- Figure 4: ELM Soil Vapor Results Map

## **LIST OF TABLES**

Table 1:	Summary of Volatile Organic Compounds (VOCs) in Soil
Table 2:	Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil
Table 3:	Summary of Metals in Soil
Table 4:	Summary of Polychlorinated Biphenyls (PCBs) in Soil
Table 5:	Summary of Pesticides in Soil
Table 6:	Summary of Volatile Organic Compounds (VOCs) in Groundwater
Table 7:	Summary of Semi-Volatile Organic Compounds (SVOCs) in Groundwater
Table 8:	Summary of Metal (Total/Dissolved) in Groundwater
Table 9:	Summary of PCBs in Groundwater
Table 10:	Summary of Pesticides in Groundwater
Table 11:	Summary of Soil Vapor Analytical Results



## **LIST OF APPENDICES**

Appendix I:	Boring/Monitoring Well Logs
Appendix II:	Groundwater Sampling Logs
Appendix III:	Laboratory Analytical Deliverables

## **1. INTRODUCTION**

ELM Engineering (ELM) has prepared this Supplemental Site Investigation Report (SSIR) for the property located at 505 West 27<sup>th</sup> Street, New York, NY (hereafter referred to as the "site"). This investigation was performed in order to supplement previous subsurface work that was conducted on the site in May/June of 2007 and a Phase I Environmental Site Assessment (ESA) performed in June 2007. The aforementioned Phase I ESA indicated that the site was historically utilized for industrial operations (including the current scrap yard) and contains at least four inactive underground storage tanks (USTs). The previously conducted soil and groundwater investigation indicated the presence of volatile organic compounds (VOCs) in groundwater and semi-volatile organic compounds (SVOCs) and metals in soils above their respective applicable regulatory criteria.

A Hazardous Materials E-Designation has been assigned to both tax lots that comprise the site (Lots 44 and 27); additionally, a Noise E-Designation has been assigned to tax lot 44. Neither tax lot has been assigned with an Air Quality E-Designation.

In August 2012, five direct push soil borings, four groundwater monitoring wells and three soil vapor points were completed at the site. A total of ten soil samples, six groundwater samples and three soil vapor samples were collected and submitted for laboratory analysis. This report summarizes the results of the subsurface investigation, presents a conceptual site model, and remedial alternatives based upon a presumptive redevelopment scheme.

## **2. SITE BACKGROUND AND SUBSURFACE CONDITIONS**

### **2.1. Site Description**

The site is located in a commercial and residential area of the West Chelsea section of the Borough of Manhattan. The site is comprised of an approximately 20,000-square foot P-shaped parcel located in the middle of the block and is bounded to the north by W28th Street; to the east by 10<sup>th</sup> Avenue; to the south by W27<sup>th</sup> Street and to the west by 11<sup>th</sup> Avenue. Adjacent properties include mixed use commercial and residential buildings to the south, west and east; manufacturing to the south; and the Highline Park (former elevated rail structure) to the east. The legal description of the site is Block 699, Lots 27 and 44. A site location map is provided as Figure 1.

The site is currently occupied by a scrap yard and a separate car rental establishment. It includes a large trailer body, sheds, and storage areas. The site surface is covered by a non-uniform, undulating concrete slab that ranges in thickness from 12 to 48 inches and contains areas of asphalt paving and soil cover. Lots 44 and 27 are separated by an approximately 20 foot high sheet metal wall.

The trailer body on Lot 44 is used as office space, while the sheds house equipment reported to maintain the rental cars. It is not believed that major maintenance of the vehicles is performed on the property. The storage on Lot 27 consists of large piles of scrap metal and sheds full of various pieces of metal equipment such as, refrigeration units and generators.

According to the previous investigations conducted by Impact Environmental in 2007, there are presently four inactive USTs located on-site. Two 550-gallon diesel USTs are located in the northeastern corner of Lot 27 and two gasoline USTs of unknown capacity are located in the southern portion of Lot 44. The Phase I indicated that the New York City Department of Building (NYCDOB) had issued a gasoline tank permit in 1934; no permit information was available regarding the diesel USTs. Additionally, no documentation was available regarding the proper decommissioning or any tightness testing associated with these USTs.

### **2.2. Site History**

Based on the Phase I Environmental Site Assessment conducted by Impact Environmental and dated July 15, 2007, historic usage of the site included the following: residential, wood yard, laundry, auto repair shop, motor freight station, automobile garage and scrap yard.

The Limited Phase II Site Investigation conducted by Impact Environmental in May and June of 2007 was performed for 699-44 Corp. The investigation included: the collection of fifteen soil samples and five grab groundwater samples from borings located in areas of concern identified in the Phase I ESA. All of the soil samples, with the exception of one, indicated elevated levels of SVOCs consistent with historic fill. According to Impact Environmental, one soil sample located in the northwestern section of Lot 44 exhibited elevated levels of VOCs above the applicable standards consistent with degraded petroleum and one groundwater sample collected in the same area exhibited elevated levels of VOCs and SVOCs above applicable standards consistent with chlorinated solvent product.

## **2.3. Geology and Hydrogeology**

### **2.3.1. Geology**

The Site is mapped on the *Weehawken, NY-NJ* Quadrant 7.5 Minute Topographic Map, published by the United States Geological Survey (USGS). Review of the topographic map indicates that the site is located approximately 15 feet above sea level (NAVD 88).

The shallow subsurface at the site consists of sands and silts, glacial till and/or fill materials. The fill has been identified from current and prior borings to consist of; concrete, brick, cinders and other construction debris mixed, silt, sand and gravel and was generally present from 1-10 feet below site grade (fbsg). Soils encountered during the SSI were mainly sands, silts and glacial till intermixed with lean clays. The till included poorly sorted sand and gravel and was generally present below the fill from 10-15 fbsg).

### **2.3.2. Hydrogeology**

Groundwater was encountered at depths ranging from approximately 8.5 to 11 fbsg. The local groundwater flow is assumed to be west/southwest toward the Hudson River. The topography of the site is relatively flat. No formal elevation survey was conducted to provide exact groundwater elevations, however it is not expected that a significant difference in gradient exists over this area.

### **3. FIELD ACTIVITIES**

The current investigation program was conducted between August 1 and 3, 2012. It included; five direct push soil borings, four groundwater monitoring wells and three soil vapor points, all installed on-site. From these locations ten soil samples, five groundwater samples and three soil vapor samples were collected. Figure 2 depicts the soil, groundwater and soil vapor sampling locations. All sampling was conducted in general accordance with NYSDEC DER-10 guidance.

#### **3.1. Concrete Coring**

Due to the to the presence of a 1 to 4 foot thick, non-uniform, concrete surface that covers the majority of the site, Eastern Concrete Cutting Corp (Eastern) was subcontracted to pre-core all of the sample locations, prior to installation. On July 31, 2012, Eastern cored eight locations at the site and identified that the concrete varied in thickness from 9 to 48 inches.

#### **3.2. Soil Boring Installation and Soil Sampling**

A total of five soil borings were installed during this investigation. The locations of the borings were chosen based on the results of previous sampling data (2007), site conditions and access. A track-mounted Geoprobe unit was used to install the soil borings. Soil samples were obtained using a 2-inch diameter, five-foot steel sampler with dedicated plastic liners. The sampler was driven through the subsurface soil to collect soil cores in five feet intervals. Each sampling core was split lengthwise and logged by ELM field personnel. Logging consisted of describing the soil using the Unified Soil Classification System (USCS), noting any evidence of contamination (e.g., staining, sheens, odors) and screening for organic vapors using a calibrated photoionization detector (PID) and visual/olfactory indication. Boring logs are included in Appendix I.

Two soil samples were be collected from each completed boring to account for observed soil conditions in the shallow and deeper elevations of the soil/fill profile. As a default, one sample was collected from the shallow zone (0-2 fbsg) and one sample was collected from the interval directly above the groundwater table. However, in the event the soil or fill material exhibited obvious signs of impacts, sample intervals were adjusted to bias possible contamination.

Soil samples were containerized in accordance with Environmental Protection Agency (EPA) analytical protocols. Each sample was labeled, sealed and refrigerated at approximately four degrees Celsius for shipment to the laboratory. Soil samples were submitted to Alpha Analytical Laboratories (Alpha) of Westboro, Massachusetts, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory via courier service under standard chain-of-custody protocol and analyzed for the following parameters:

- VOCs via United States Environmental Protection Agency (USEPA) Method 8260B + NYSDEC Part 375 List;
- SVOCs via USEPA Method 8270C;

- Target Analyte List (TAL) Metals via USEPA Method 6010B/7470A+ NYSDEC Part 375 List;
- Polychlorinated Biphenyls (PCBs) via USEPA Method 8082; and
- Pesticides via USEPA 8081A + NYSDEC Part 375 List

In addition, one duplicate sample and one trip blank were collected for quality assurance/quality control (QA/QC) purposes. Soil analytical results are provided in Tables 1-5.

### **3.3. Monitoring Well Installation and Groundwater Sampling**

Four permanent monitoring wells were installed onsite during this investigation: one upgradient monitoring well (MW-4) and one crossgradient well (MW-3) were installed to assess the potential for off-site impacts to groundwater beneath the site; and two downgradient monitoring wells (MW-1 and MW-2) were installed to monitor potential off-site migration of contaminants emanating from the site (Figure 2).

Monitoring wells were installed using a track mounted Geoprobe, outfitted with 4¼" auger attachments to approximately 15 fbsg. All of the wells were constructed of 2" diameter PVC riser with 10' of .020" slotted PVC screen. The screen was installed with the intention of straddling the groundwater table from approximately 5' above to 5' below the groundwater/soil interface. The annular space in the borehole around the well was filled with clean quartz sand to approximately 2' above the well screen, followed by approximately 2' of bentonite grout and completed with 6" of concrete. Each well was finished with a flush mounted manhole cover. Monitoring wells were installed concurrent with four soil boring locations (see Figure 2) and were developed on the day of their installation.

One week following the installation of the monitoring wells, groundwater samples were collected. Groundwater samples were collected according to EPA's *Low Flow Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells* (Low Flow Procedures, January 2010). On August 10, 2012, five (5) groundwater samples were collected and containerized in accordance with Environmental Protection Agency (EPA) analytical protocols. Each sample was labeled, sealed and refrigerated at approximately four degrees Celsius for shipment to the laboratory. Groundwater samples were submitted to Alpha via courier service under standard chain-of-custody protocol and analyzed for the following parameters:

- VOCs via USEPA Method 8260B + NYSDEC Part 375 List;
- SVOCs via USEPA Method 8270C + NYSDEC Part 375 List;
- TAL Metals via USEPA Method 6010B/7470A + NYSDEC Part 375 List;
- PCBs via USEPA Method 8082 + NYSDEC Part 375 List; and
- Pesticides via USEPA 8081A + NYSDEC Part 375 List.

Additionally, one groundwater sample was analyzed for New York City Department of Environmental Protection (NYCDEP) Discharge Effluent Parameters in order to evaluate

the presence of dissolved-phase constituents subject to the effluent limitations under the NYCDEP sewer discharge permit and to assess the potential need for a dewatering pre-treatment system. One duplicate sample and one trip blank were collected for quality assurance/quality control (QA/QC) purposes. Groundwater sampling logs are included as Appendix II. Groundwater sample results are provided in Tables 5-10 and depicted on Figure 3.

All investigation derived waste (IDW), including redevelopment and purge water, was drummed and will be disposed of off-site in accordance with federal, state and local regulations.

### **3.4. Soil Vapor Point Installation and Soil Vapor Sampling**

A total of four soil vapor samples were proposed onsite. Temporary soil vapor point installation and sampling was conducted on August 1, 2012 by Viridian Inc. During this portion of the SSI investigation refusal was encountered in three pre-cored locations. Subsequently, the soil vapor sampling locations were moved and to the closest pre-cored soil boring location. Ultimately, one (SV-2) of the four soil vapor samples was eliminated due to the presence of moisture within the sampling tube.

Soil vapor samples were collected using a probe with a retractable slotted tip advanced through the subsurface at the site and installed at a depth of approximately five (5) fbsg. To install each probe, Viridian drilled a 3/8" hole using a hand-held hammer drill. Upon drilling to the desired depth, a 1/8" Teflon tube was implanted into the hole, and the annular space sealed with bentonite to prevent ambient air from entering the area around the probe. Once the seal was secure, Viridian connected a "T" fitting and valve on the above-surface end of the tubing. A syringe was used to purge the vapors in the probe and tubing of three volumes. As required by the New York State Department of Health (NYSDOH) Guidance, a helium (He) tracer was used as part of the sampling process and the testing followed the NYSDOH guidance. Prior to sample collection, the He vapor was screened using a field meter. The measurement recorded was less than 1% He at each soil vapor sampling location (NYSDOH allows for 10% as a measure to determine a competent seal). Prior to sample collection, a multi-gas meter was used to measure the concentration of O<sub>2</sub>, CO<sub>2</sub>, and CH<sub>4</sub> in each probe, to assess the persistence of hydrocarbon vapors. Following this procedure the soil vapor samples were collected in Summa™ canisters at flow rates no greater than 200 ml/min. All Summa™ canisters were certified clean by the laboratory.

All soil vapor samples were collected over a period of two hours. The soil vapor samples were submitted to Alpha via courier service under standard chain-of-custody protocol and analyzed for VOCs via EPA Method TO-15. Soil vapor sample results are provided in Table 11 and depicted on Figure 4.

## **4. SUMMARY OF RESULTS**

The results of the SSI are discussed below and summarized in Tables 1 through 11. Laboratory deliverables are included in Appendix III.

### **4.1. Soil**

#### ***4.1.1. Applicable Regulatory Standards for Soil***

The results of the soil analysis were compared to the NYSDEC Unrestricted Use Soil Cleanup Objectives (SCOs) and the NYSDEC Restricted Residential Use Soil Cleanup Objectives. The Unrestricted Use SCOs are listed in 6 NYCRR Part 375-6.8(a); the restricted Residential SCOs are listed in 6 NYCRR Part 375-6.8(b). The Unrestricted Use SCOs are generally the NYSDEC's most conservative cleanup objectives and represent the concentration of a contaminant in soil which, when achieved at a site, will require no use restrictions on the site for the protection of public health, groundwater and ecological resources due to the presence of contaminants in the soil. The Restricted Residential SCOs are use-based criteria that are compatible with the surrounding area and take into account the future usage of the site combined with the implementation of institutional and engineering controls.

#### ***4.1.2. Soil Results***

##### ***4.1.2.1. VOCs***

Acetone was detected in both samples collected from boring SB-1 at concentrations exceeding its respective Unrestricted SCO. Acetone is a common laboratory contaminant and not considered indicative of site specific contamination. No VOCs were detected above Restricted Residential SCOs.

##### ***4.1.2.2. SVOCs***

Benzo (a) anthracene, benzo(a)pyrene, benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene were detected above their respective Restricted Residential SCOs in soil sample SB-4(4) collected at 4 fbsg; chrysene was detected above Unrestricted SCOs in sample SB-4(4), but below Restricted Residential SCOs. Indeno(1,2,3-cd)pyrene was detected above its Restricted Residential SCO of .5 mg/kg in soil samples SB-2(4), collected at 4 fbsg, and the duplicate sample. PAHs are typically related to the presence of historic fill and not indicative of historic or present on-site operations.

##### ***4.1.2.3. Metals***

Lead was detected above its Unrestricted SCO of 63mg/kg in soil samples SB-1(13.5'), SB-4(4') and the duplicate sample; it was detected above its Restricted Residential SCO of 400mg/kg in soil sample SB-3(3'). Barium was detected above its Restricted Residential SCO of 400mg/kg in soil samples SB-3(3') and SB-4(4'). Mercury was detected above its Unrestricted SCO of .18mg/kg in soil samples SB-1(13.5'), SB-2(4'), SB-3(3'), SB-4(4') and the duplicate sample. Zinc was detected above its Unrestricted SCO of 109mg/kg in soil samples SB-3(3') and SB-4(4'). Mercury and zinc were not detected above Restricted Residential SCOs in any soil sample.



#### **4.1.2.4. PCBs**

Total PCB concentrations exceeded its Unrestricted SCO of .10mg/kg in one soil sample, SB-4(4') at .11mg/kg. No PCB's were detected above Restricted Residential SCOs.

#### **4.1.2.5. Pesticides**

Three pesticides were detected above SCOs in one soil sample, SB-4(4'); 4,4'-DDT and 4,4'-DDD exceeded their Unrestricted SCO of .0033mg/kg and Dieldrin exceeded its Unrestricted SCO of .0050mg/kg.

### **4.2. Groundwater**

#### **4.2.1. Applicable Regulatory Standards for Groundwater**

The results of the groundwater analysis were compared to New York State Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQSs) and Guidance Values and Groundwater Effluent Limitations. TOGS 1.1.1 standards and guidance values are ambient water quality values that are set to protect the state's waters.

#### **4.2.2. Groundwater Results**

##### **4.2.2.1. VOCs**

Two chlorinated solvent related VOCs were detected in one groundwater sample (MW-2) and its associated duplicate sample (FieldDup). 1,1-dichloroethane was detected in sample MW-2 and Field Duplicate at 8.4µg/l and 9.9µg/l respectively, exceeding its AWQS of 5 µg/l and cis-1,2-dichloroethene was detected in sample MW-2 and Field Duplicate at 220 µg/l and 260 µg/l respectively, exceeding its AWQS of 5 µg/l.

##### **4.2.2.2. SVOCs**

Sample MW-1 and MW-3 contained concentrations (29µg/l and .480µg/l respectively) of chrysene above its AWQS of .002µg/l. Sample MW-3 also contained concentrations of bis(2-ethylhexyl)phthalate at 6.10µg/l, exceeding its AWQS of 5µg/l and benzo(b)fluoranthene at 0.4µg/l, exceeding its AWQS of .002µg/l.

##### **4.2.2.3. Metals**

Groundwater throughout the site was found to contain a variety of total metals, the following of which exceeded TOGS 1.1.1 AWQS: chromium, iron, lead, magnesium, manganese, nickel, selenium and sodium. Analysis for dissolved metals however, detected only magnesium, manganese, selenium and sodium at concentrations that exceeded TOGS 1.1.1 AWQS. A dissolved metals analysis of groundwater is performed by removing the particulates found in the sample with a filter, then analyzing the filtered water for metals. Sediment particulates can result in an erroneous detection of metal concentrations. Concentrations of detected metals are depicted on Figure 3.

##### **4.2.2.4. PCBs**

No PCBs were detected above TOGS 1.1.1 AWQS.

#### **4.2.2.5. Pesticides**

No Pesticides were detected above TOGS 1.1.1 AWQS.

#### **4.2.2.6. NYCDEP Discharge Effluent Parameters**

The groundwater results indicate the level of total dissolved solids (TSS) are below the limits set by NYCDEP for discharge in New York City sewers. According to NYCDEP's discharge permit regulations, the NYCDEP effluent limitation for TSS is determined on a case-by-case basis for discharge volumes less than 10,000 gallons per day (gpd). Discharge volumes greater than 10,000 gpd fall under the NYCDEP effluent limitation for TSS of 350 mg/L. Typically during construction activities groundwater is removed in or around areas of active excavation and may include sediment from these activities. It would be reasonable to anticipate that some method of settling will be necessary to meet the sewer discharge limits.

### **4.3. Soil Vapor**

#### **4.3.1. Applicable Regulatory Standards for Groundwater**

The soil vapor results were compared to the NYSDOH indoor air guidance values (AGVs) found in the *Guidance for Evaluating Soil Vapor Intrusion in New York State* (NYSDOH 2006) and the NYSDOH Memorandum dated June 25, 2007 which added three additional VOCs to the soil vapor/indoor air decision matrix.

#### **4.3.2. Soil Vapor Results**

Tetrachloroethene (PCE) was detected above its AGV of 100µg/m<sup>3</sup> in all three samples. Trichloroethene (TCE) was detected above its AGV of 5µg/m<sup>3</sup> in samples SV-3 and SV-4. 1,1,1-Trichloroethane was detected in all three samples and cis-1,2-dichloroethene (DCE) was detected in one sample (SV-3). While 1,1,1-Trichloroethane and DCE do not have AGV's, they are subject to the NYSDOH soil vapor and indoor air decision matrix. Concentrations of the detected VOCs in the soil vapor samples are presented in Figure 4.

#### **4.3.3. Discussion of NYSDOH Soil Vapor Guidance Matrices**

The NYSDOH has developed two matrices, which are included at the end of Section 3.4 of the *Guidance for Evaluating Soil Vapor Intrusion in New York State*, to use as tools in making decisions when soil vapor may be entering buildings. These matrices compare the VOC concentration of sub-slab soil vapor with the VOC concentration of the corresponding buildings indoor air. Both concentrations are then used to provide guidance on a case-by-case basis about actions (e.g. no further action, monitoring or mitigation) that should be taken to address current and potential exposures related to soil vapor intrusion.

## 5. CONCEPTUAL SITE MODEL

The previous investigation performed by Impact Environmental in May/June 2007 indicated the presence of petroleum contamination in one soil sample and the presence of solvent contamination in one grab groundwater sample, both samples were located in the northwestern corner of the site. The goal of this SSI was to further investigate impacts to soil, groundwater and soil vapor within areas that were previously not investigated as well as within previously identified areas of concern. This evaluation provides a conceptual site model of the conditions present in the substrate within the boundaries of the site and does not contemplate potential off-site impacts.

The results of the soil investigation indicate the following:

- Soil samples were collected from the vicinity of all four on-site USTs. Sample results show no petroleum related impacts to the soil in these areas of concern or any other areas tested on-site;
- Shallow soil samples collected across the site indicate the presence of several SVOCs consistent with those found in historic fill;
- Lead was detected above Unrestricted SCOs in samples SB-1(13.5') and SB-4(4'). Mercury was detected above Unrestricted SCOs in samples SB-1(13.5'), SB-2(4'), SB-3(3') and SB-4(4'). Barium was detected above Restricted Residential SCOs in samples SB-3(3') and SB-4(4') and zinc was detected above Unrestricted SCOs in samples SB-3(3') and SB-4(4').
- Heavy metals present in the soil could be the result of present and historic site usage as a metals scrap yard. Metals in the soil could also be attributed to the presence of fill across the site;
- PCBs and pesticides exceeded Unrestricted SCOs in one sample, SB-4(4');
- Preliminary redevelopment plans include the option for excavation and removal of all fill material within the site boundary to the proposed development depth of 12'. Excavation and proper disposal of site soils will serve as the remedial alternative for addressing any compound exceedances in the soil.
- Waste characterization for excavated material that will be removed from the site will be required. This should take into account varying types and classifications of fill material to manage appropriately the disposal effort.

The results of the groundwater investigation indicate the following:

- Elevated concentrations of DCE and 1,1-dichloroethane above TOGS 1.1.1 AWQS were detected in sample MW-2 and its corresponding duplicate sample;
- No concentrations of VOCs were detected above TOGS 1.1.1 AWQS in groundwater samples collected from the other three wells;
- Trace to low level concentrations of SVOCs above TOGS 1.1.1 AWQS were detected in samples MW-1 and MW-2;

- Generally speaking, shallow groundwater within New York City is not considered a potable source of water. Based on our review of the dissolved metal concentrations in the groundwater beneath the site, these detections are consistent with concentrations found in areas containing historic fill throughout the city.;
- Analysis of groundwater at the site indicates the presence of (northwestern corner) contamination from what appears to be degraded chlorinated solvents;
- Based on the existing information there was no identified onsite source (e.g. a former drycleaner or tank); additional onsite investigation would need to be conducted in order to delineate the extent of the impact.

The results of the soil vapor investigation indicate the following:

- PCE exceeded its AGV and 1,1,1-Trichloroethane was detected in all three soil vapor samples;
- TCE exceeded its AGV in two of three samples;
- DCE was detected in one of three samples;
- Additional investigation (i.e. sub-slab and indoor air) may be necessary in order to evaluate the potential of actions associated with these results;
- Proposed excavation to the groundwater table for building construction will essentially eliminate any sources of vapor that originate above the water table and may allow for mitigation through engineering controls including a vapor barrier/passive venting.

## **6. REFERENCES**

6 NYCRR Part 375 Environmental Remediation Programs. December 14, 2006

DER-10 Technical Guidance for Site Investigation and Remediation; NYSDEC Division of Environmental Remediation, May 2010

NYSDOH Guidance for Evaluating Soil Vapor Intrusion in New York State, 2006

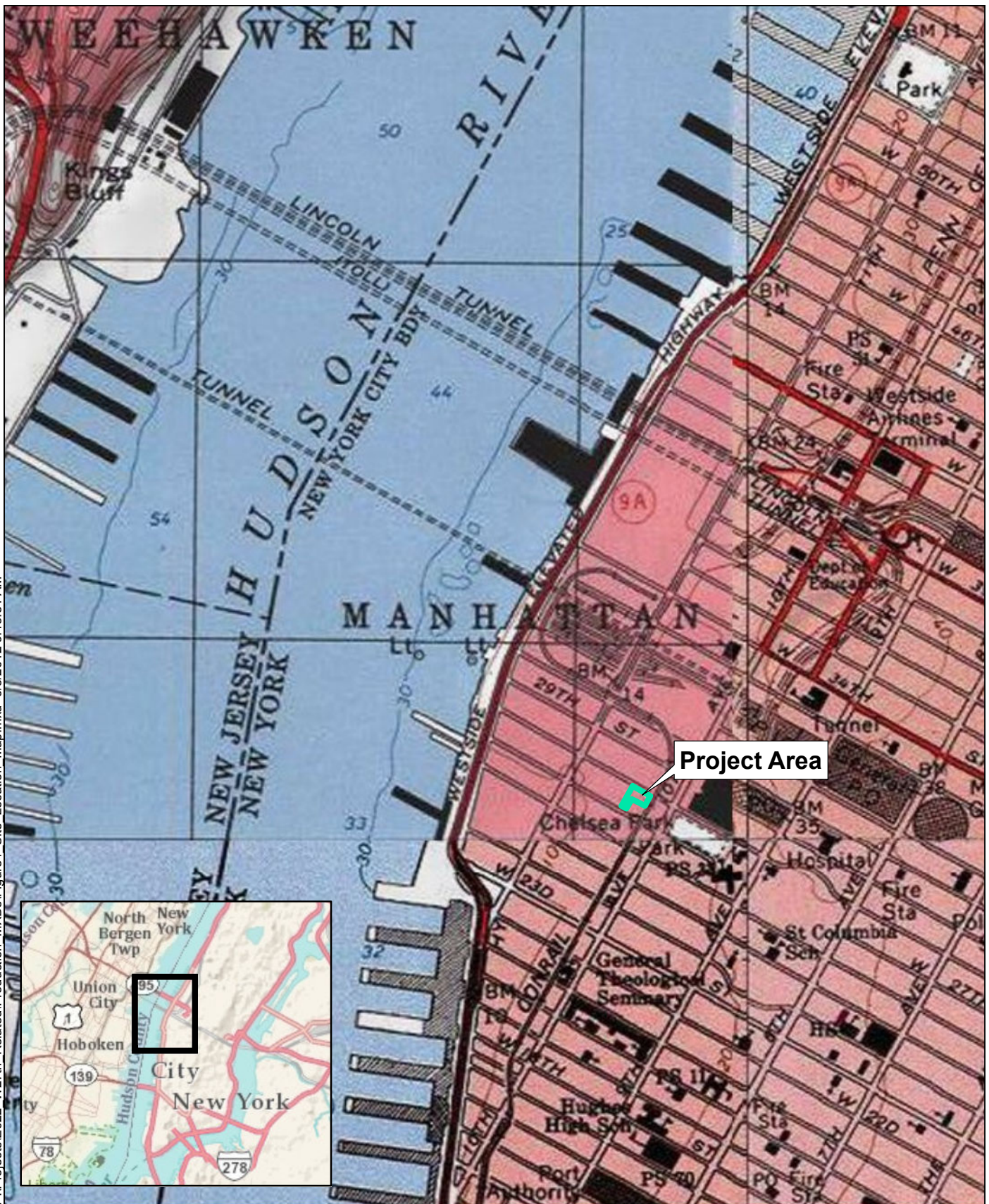
NYSDOH Technical Memorandum on Soil Vapor/Indoor Air Matrices, June 25, 2007

Procedure for Obtaining Letter of Approval for Groundwater Discharge to Sanitary or Combined Sewer; Table A – Limitations for Effluent to Sanitary or Combined Sewers; NYCDEP, November 2009

## FIGURES



P:\Projects\E022 W27th Related\Production MXDs\Figure1 Site Location Map.mxd 9/5/2012 9:43:31 AM



257 BROADWAY, FIFTH FLOOR  
NEW YORK, NEW YORK 10007  
www.ELMEngineeringPC.com



0 1,000 2,000  
Feet

Figure 1.  
Site Location Map  
505 West 27th Street, New York, NY



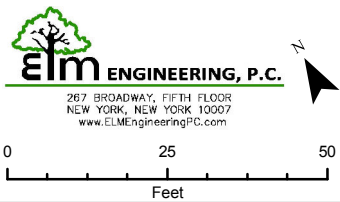
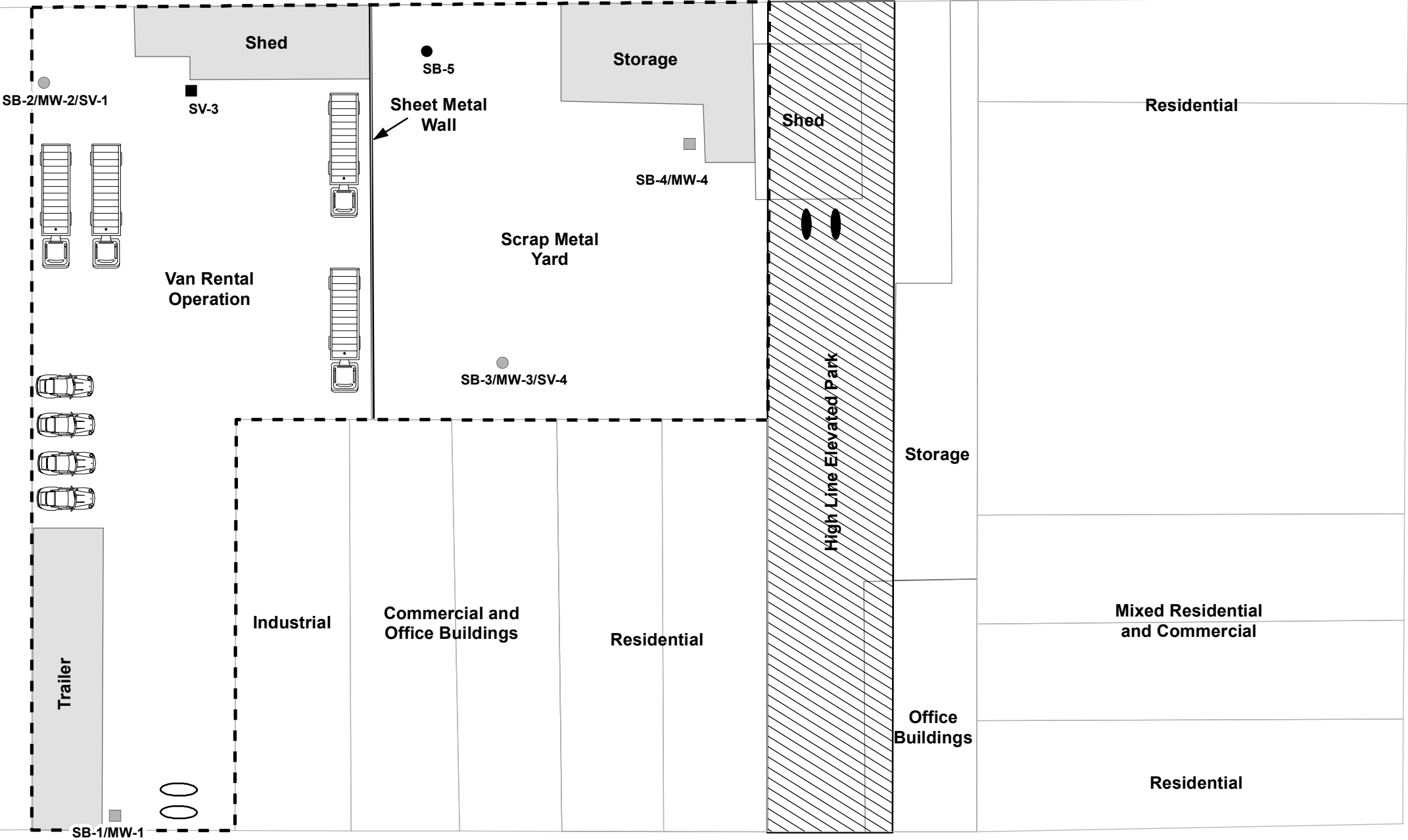
P:\Projects\1022\_W27th\_Related\Production\_MXD\Figure2\_Site\_Plan\_View.mxd 9/5/2012 9:46:11 AM

W. 28th St.

10th Ave.

W. 27th St.

Commercial and Office Buildings



Map Features

- Site Boundary
- Inactive Diesel Underground Storage Tank, 550-gallon
- Inactive Gasoline Underground Storage Tank, Unknown Capacity
- Tax Lots

- Soil Boring
- Soil Boring/Monitoring Well
- Soil Boring/Monitoring Well/Soil Vapor
- Soil Vapor

**Figure 2.**  
Site View with Sample Locations  
505 West 27th Street, New York, NY



P:\Projects\E022\_V27th\_Related\Production\_MXD\Figure3\_Site\_Plan\_View\_GW.mxd 9/5/2012 9:46:56 AM

MW-2				
8/10/2012	Total	Dissolved	DUP Total	DUP Dissolved
VOCs				
1,1-DICHLOROETHANE	8.4 J	NT	9.9 J	NT
CIS-12-DICHLOROETHENE	220	NT	260	NT
SVOCs				
BIS(2-ETHYLHEXYL)PHTHALATE	ND	NT	ND	NT
BENZO(B)FLUORANTHENE	ND	NT	ND	NT
CHRYSENE	ND	NT	ND	NT
Metals				
CHROMIUM	89.1	ND	75	ND
IRON	49000	ND	37900	ND
LEAD	84.4	ND	67.1	ND
MAGNESIUM	59000	53000	61000	45200
MANGANESE	2190	606	1935	756.5
NICKEL	ND	ND	ND	ND
SELENIUM	ND	ND	ND	ND
SODIUM	171000	134000	171000	147000

MW-4		
8/10/2012	Total	Dissolved
VOCs		
1,1-DICHLOROETHANE	ND	NT
CIS-12-DICHLOROETHENE	ND	NT
SVOCs		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	NT
BENZO(B)FLUORANTHENE	ND	NT
CHRYSENE	ND	NT
Metals		
CHROMIUM	ND	ND
IRON	972	ND
LEAD	ND	ND
MAGNESIUM	49200	44100
MANGANESE	ND	ND
NICKEL	ND	ND
SELENIUM	28 J	25
SODIUM	79900	73400

MW-1		
8/10/2012	Total	Dissolved
VOCs		
1,1-DICHLOROETHANE	ND	NT
CIS-12-DICHLOROETHENE	ND	NT
SVOCs		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	NT
BENZO(B)FLUORANTHENE	ND	NT
CHRYSENE	0.29	NT
Metals		
CHROMIUM	287	ND
IRON	40600	ND
LEAD	89.1	ND
MAGNESIUM	ND	ND
MANGANESE	4213	2582
NICKEL	294.4	ND
SELENIUM	ND	ND
SODIUM	77800	78200

MW-3		
8/10/2012	Total	Dissolved
VOCs		
1,1-DICHLOROETHANE	ND	NT
CIS-12-DICHLOROETHENE	ND	NT
SVOCs		
BIS(2-ETHYLHEXYL)PHTHALATE	6.1	NT
BENZO(B)FLUORANTHENE	0.4 J	NT
CHRYSENE	0.48 J	NT
Metals		
CHROMIUM	62.7	ND
IRON	27700	ND
LEAD	158.9	ND
MAGNESIUM	37000	ND
MANGANESE	3113	1286
NICKEL	ND	ND
SELENIUM	12 J	ND
SODIUM	40600	39600

LEGEND

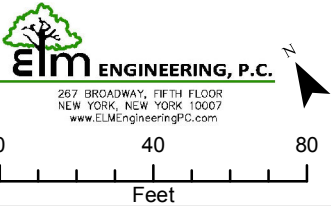
Approximate Sample Locations

- Soil Boring
- Soil Boring/Monitoring Well
- Soil Boring/Monitoring Well/Soil Vapor
- Soil Vapor

Sample ID	TOGS AWQS*
Date	
Analyte	
VOCs	
1,1-DICHLOROETHANE	5
CIS-12-DICHLOROETHENE	5
SVOCs	
BIS(2-ETHYLHEXYL)PHTHALATE	5
BENZO(B)FLUORANTHENE	0.002
CHRYSENE	0.002
Metals	
CHROMIUM	50
IRON	300
LEAD	25
MAGNESIUM	35,000
MANGANESE	300
NICKEL	100
SELENIUM	10
SODIUM	20,000

NOTES:

- \* New York State Department of Environmental Conservation (NYSDEC) TOGS 1.1.1. Ambient Water Quality Standards (AWQS)
- All results are in µg/L
- Only compounds that exceed NYSDEC TOGS AWQS criteria in one or more locations are shown
- Bolded** and *italicized* results exceed applicable NYSDEC TOGS AWQS
- VOC = Volatile Organic Compound
- SVOC = Semi-volatile Organic Compound
- ND = Not Detected
- NT = Not Tested
- J - Estimated Value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).



Map Features

- Site Boundary
- Inactive Diesel Underground Storage Tank, 550-gallon
- Inactive Gasoline Underground Storage Tank, Unknown Capacity
- Tax Lots

Figure 3.  
Groundwater Analytical Results Map  
505 West 27th Street, New York, NY

P:\Projects\E022\_W27th\_Related\Production\_MXD\Figure4\_Site\_Plan\_View\_SV.mxd 8/30/2012 2:14:02 PM

SV-1	
8/1/2012	
PCE	<b>308</b>
TCE	ND
DCE**	ND
1,1,1-TRICHLOROETHANE**	17.2

SV-3	
8/1/2012	
PCE	<b>460</b>
TCE	<b>20.4</b>
DCE**	4.44
1,1,1-TRICHLOROETHANE**	12.8

SV-4	
8/1/2012	
PCE	<b>169</b>
TCE	<b>100</b>
DCE**	ND
1,1,1-TRICHLOROETHANE**	107

LEGEND

Approximate Sample Locations

- Soil Boring
- Soil Boring/Monitoring Well
- Soil Boring/Monitoring Well/Soil Vapor
- Soil Vapor

Sample ID	
Date	
Analyte	AGV*
TETRACHLOROETHENE (PCE)	100
TRICHLOROETHENE (TCE)	5
CIS-1,2-DICHLOROETHENE (DCE)**	NS
1,1,1-TRICHLOROETHANE**	NS

NOTES:

- \*New York State Department of Health (NYSDOH) Air Guidance Value (AGV)
- \*\*Compound subject to the NYSDOH Soil Vapor and Indoor Air Matrices
- All results are in µg/m3
- ND = Not Detected
- NS = No Standard
- Only compounds that exceed AGVs or that were detected and are subject to the NYSDOH Matrices are shown
- Bolded** and *italicized* results indicate an AGV exceedance

Map Features

- Site Boundary
- Inactive Diesel Underground Storage Tank, 550-gallon
- Inactive Gasoline Underground Storage Tank, Unknown Capacity
- Tax Lots

Figure 4.  
Soil Vapor Results Map  
505 West 27th Street, New York, NY

## TABLES

Table 1  
Soil Analytical Data - VOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID Laboratory ID Sample Media Sample Date Depth of Water Unit of Measure	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB3_3 L1213978-01 Soil 8/2/2012 NA mg/Kg	SB3_11 L1213978-02 Soil 8/2/2012 NA mg/Kg	SB4_4 L1213978-03 Soil 8/2/2012 NA mg/Kg	SB4_13 L1213978-04 Soil 8/2/2012 NA mg/Kg	SB5_8 L1213978-05 Soil 8/2/2012 NA mg/Kg	SB1_10 L1213978-06 Soil 8/3/2012 NA mg/Kg	SB1_13.5 L1213978-07 Soil 8/3/2012 NA mg/Kg	SB2_4 L1213978-08 Soil 8/3/2012 NA mg/Kg	SB2_10 L1213978-09 Soil 8/3/2012 NA mg/Kg	DUP_1 L1213978-10 Soil 8/3/2012 NA mg/Kg
VOLATILE ORGANIC COMPOUNDS												
1,1,1,2-TETRACHLOROETHANE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
1,1,1-TRICHLOROETHANE	0.68	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
1,1,2,2-TETRACHLOROETHANE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0072	0.0027 U	0.0028 U	0.0027 U
1,1,2-TRICHLOROETHANE	NS	NS	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0043 U	0.0041 U	0.0042 U	0.0041 U
1,1-DICHLOROETHANE	0.27	26.00	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0043 U	0.0041 U	0.0042 U	0.0041 U
1,1-DICHLOROETHENE	0.33	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
1,1-DICHLOROPROPENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,3-TRICHLOROBENZENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,3-TRICHLOROPROPANE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
1,2,4,5-TETRAMETHYLBENZENE	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.0006 J	0.011 U	0.011 U	0.011 U
1,2,4-TRICHLOROBENZENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2,4-TRIMETHYLBENZENE	3.60	52.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.0034 J	0.014 U	0.014 U	0.014 U
1,2-DIBROMO-3-CHLOROPROPANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-DIBROMOETHANE	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
1,2-DICHLOROBENZENE	1.10	100.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,2-DICHLOROETHANE	0.02	3.10	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
1,2-DICHLOROPROPANE	NS	NS	0.01 U	0.01 U	0.0099 U	0.01 U	0.0094 U	0.0098 U	0.01 U	0.0096 U	0.0097 U	0.0096 U
1,3,5-TRIMETHYLBENZENE	8.40	52.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.005 J	0.014 U	0.014 U	0.014 U
1,3-DICHLOROBENZENE	2.40	49.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,3-DICHLOROPROPANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
1,4-DICHLOROBENZENE	1.80	13.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.0018 J	0.014 U	0.014 U	0.014 U
1,4-DIETHYLBENZENE	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
1,4-DIOXANE	0.10	13.00	<i>0.29 U</i>	<i>0.3 U</i>	<i>0.28 U</i>	<i>0.3 U</i>	<i>0.27 U</i>	<i>0.28 U</i>	<i>0.29 U</i>	<i>0.27 U</i>	<i>0.28 U</i>	<i>0.27 U</i>
2,2-DICHLOROPROPANE	NS	NS	0.02 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
2-BUTANONE	0.12	100.00	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029	0.027 U	0.028 U	0.027 U
2-HEXANONE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
4-ETHYLTOLUENE	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.0016 J	0.0024 J	0.011 U	0.011 U	0.011 U
4-METHYL-2-PENTANONE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
ACETONE	0.05	100.00	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	<b>0.064</b>	<b>0.15</b>	0.027 U	0.028 U	0.027 U
ACRYLONITRILE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
BENZENE	0.06	4.80	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
BROMOBENZENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U

Notes:  
Italicized value indicates reporting limit exceeds standard  
Bold value indicates concentration exceeds Unrestricted SCOs  
Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
U = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 1  
Soil Analytical Data - VOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID Laboratory ID Sample Media Sample Date Depth of Water Unit of Measure	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB3_3 L1213978-01 Soil 8/2/2012 NA mg/Kg	SB3_11 L1213978-02 Soil 8/2/2012 NA mg/Kg	SB4_4 L1213978-03 Soil 8/2/2012 NA mg/Kg	SB4_13 L1213978-04 Soil 8/2/2012 NA mg/Kg	SB5_8 L1213978-05 Soil 8/2/2012 NA mg/Kg	SB1_10 L1213978-06 Soil 8/3/2012 NA mg/Kg	SB1_13.5 L1213978-07 Soil 8/3/2012 NA mg/Kg	SB2_4 L1213978-08 Soil 8/3/2012 NA mg/Kg	SB2_10 L1213978-09 Soil 8/3/2012 NA mg/Kg	DUP_1 L1213978-10 Soil 8/3/2012 NA mg/Kg
BROMOCHLOROMETHANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
BROMODICHLOROMETHANE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
BROMOFORM	NS	NS	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
BROMOMETHANE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
CARBON DISULFIDE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.0066 J	0.027 U	0.028 U	0.027 U
CARBON TETRACHLORIDE	0.76	2.40	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
CHLORO BENZENE	1.10	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
CHLOROETHANE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
CHLOROFORM	0.37	49.00	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0043 U	0.0041 U	0.0042 U	0.0041 U
CHLOROMETHANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
CIS-1,2-DICHLOROETHENE	0.25	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
CIS-1,3-DICHLOROPROPENE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
DIBROMOCHLOROMETHANE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
DIBROMOMETHANE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
DICHLORODIFLUOROMETHANE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
ETHYL ETHER	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
ETHYLBENZENE	1.00	41.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
HEXACHLOROBUTADIENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
ISOPROPYLBENZENE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
METHYL TERT BUTYL ETHER	0.93	100.00	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
METHYLENE CHLORIDE	0.05	100.00	0.029 U	0.01 J	0.0091 J	0.0084 J	0.011 J	0.028 U	0.029 U	0.0062 J	0.006 J	0.027 U
N-BUTYLBENZENE	12.00	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
N-PROPYLBENZENE	3.90	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
NAPHTHALENE	12.00	100.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.0026 J	0.014 U	0.014 U	0.014 U
O-CHLOROTOLUENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
O-XYLENE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
P-CHLOROTOLUENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
P-ISOPROPYLTOLUENE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
P/M-XYLENE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0026 J	0.0027 J	0.0055 U	0.0056 U	0.0055 U
SEC-BUTYLBENZENE	11.00	100.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
STYRENE	NS	NS	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
TERT-BUTYLBENZENE	5.90	100.00	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
TETRACHLOROETHENE	1.30	19.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
TOLUENE	0.70	100.00	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0023 J	0.0041 U	0.0042 U	0.0041 U
TRANS-1,2-DICHLOROETHENE	0.19	100.00	0.0044 U	0.0045 U	0.0043 U	0.0045 U	0.004 U	0.0042 U	0.0043 U	0.0041 U	0.0042 U	0.0041 U
TRANS-1,3-DICHLOROPROPENE	NS	NS	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
TRANS-1,4-DICHLORO-2-BUTENE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
TRICHLOROETHENE	0.47	21.00	0.0029 U	0.003 U	0.0028 U	0.003 U	0.0027 U	0.0028 U	0.0029 U	0.0027 U	0.0028 U	0.0027 U
TRICHLOROFLUOROMETHANE	NS	NS	0.015 U	0.015 U	0.014 U	0.015 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
VINYL ACETATE	NS	NS	0.029 U	0.03 U	0.028 U	0.03 U	0.027 U	0.028 U	0.029 U	0.027 U	0.028 U	0.027 U
VINYL CHLORIDE	0.02	0.90	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0056 U	0.0057 U	0.0055 U	0.0056 U	0.0055 U
TOTAL XYLENES	0.26	100.00	0.0059 U	0.006 U	0.0057 U	0.006 U	0.0054 U	0.0026 J	0.0027 J	0.0055 U	0.0056 U	0.0055 U

Notes:  
Italicized value indicates reporting limit exceeds standard  
Bold value indicates concentration exceeds Unrestricted SCOs  
Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs  
J = Estimated value  
U = Not detected  
NS = No Standard  
\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 2  
Soil Analytical Data - SVOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB3_3 L1213978-01 Soil 8/2/2012 NA mg/Kg	SB3_11 L1213978-02 Soil 8/2/2012 NA mg/Kg	SB4_4 L1213978-03 Soil 8/2/2012 NA mg/Kg	SB4_13 L1213978-04 Soil 8/2/2012 NA mg/Kg	SB5_8 L1213978-05 Soil 8/2/2012 NA mg/Kg	SB1_10 L1213978-06 Soil 8/3/2012 NA mg/Kg	SB1_13.5 L1213978-07 Soil 8/3/2012 NA mg/Kg	SB2_4 L1213978-08 Soil 8/3/2012 NA mg/Kg	SB2_10 L1213978-09 Soil 8/3/2012 NA mg/Kg	DUP_1 L1213978-10 Soil 8/3/2012 NA mg/Kg
Laboratory ID												
Sample Media												
Sample Date												
Depth of Water												
Unit of Measure												
<b>SEMIVOLATILE ORGANIC COMPOUNDS</b>												
1,2,4,5-TETRACHLOROBENZENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
1,2,4-TRICHLOROBENZENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
1,2-DICHLOROBENZENE	1.10	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	2.40	49.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
1,4-DICHLOROBENZENE	1.80	13.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2,4,5-TRICHLOROPHENOL	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2,4,6-TRICHLOROPHENOL	NS	NS	1.2 U	0.12 U	1.1 U	0.12 U	0.11 U	1.1 U	1.1 U	0.11 U	0.11 U	0.11 U
2,4-DICHLOROPHENOL	NS	NS	1.7 U	0.18 U	1.7 U	0.18 U	0.16 U	1.6 U	1.7 U	0.16 U	0.16 U	0.16 U
2,4-DIMETHYLPHENOL	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2,4-DINITROPHENOL	NS	NS	9.3 U	0.96 U	8.9 U	0.94 U	0.85 U	8.8 U	9.1 U	0.87 U	0.88 U	0.87 U
2,4-DINITROTOLUENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2,6-DINITROTOLUENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-CHLORONAPHTHALENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-CHLOROPHENOL	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-METHYLNAPHTHALENE	NS	NS	2.3 U	0.24 U	2.2 U	0.24 U	0.21 U	2.2 U	2.3 U	0.22 U	0.22 U	0.22 U
2-METHYLPHENOL	0.33	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-NITROANILINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
2-NITROPHENOL	NS	NS	4.2 U	0.43 U	4 U	0.42 U	0.38 U	4 U	4.1 U	0.39 U	0.39 U	0.39 U
3,3'-DICHLOROBENZIDINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
3-METHYLPHENOL/4-METHYLPHENOL	0.33	100.00	2.8 U	0.29 U	2.6 U	0.28 U	0.26 U	2.6 U	2.7 U	0.26 U	0.26 U	0.26 U
3-NITROANILINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4,6-DINITRO-O-CRESOL	NS	NS	5 U	0.52 U	4.8 U	0.51 U	0.46 U	4.8 U	4.9 U	0.47 U	0.48 U	0.47 U
4-BROMOPHENYL PHENYL ETHER	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4-CHLOROANILINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4-CHLOROPHENYL PHENYL ETHER	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4-NITROANILINE	NS	NS	1.9 U	0.2 U	1.8 U	0.20 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
4-NITROPHENOL	NS	NS	2.7 U	0.28 U	2.6 U	0.27 U	0.25 U	2.6 U	2.7 U	0.25 U	0.26 U	0.25 U
ACENAPHTHENE	20.00	100.00	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.20	0.15 U	0.22
ACENAPHTHYLENE	100.00	100.00	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.14 U	0.15 U	0.06 J
ACETOPHENONE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
ANTHRACENE	100.00	100.00	1.2 U	0.12 U	0.47 J	0.12 U	0.11 U	1.1 U	1.1 U	0.44	0.11 U	0.57

Notes:

Italicized value indicates reporting limit exceeds standard  
 Bold value indicates concentration exceeds Unrestricted SCOs  
 Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs  
 J = Estimated value  
 U = Not detected  
 NS = No Standard  
 \* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
 \*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 2  
Soil Analytical Data - SVOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB3_3 L1213978-01 Soil 8/2/2012 NA mg/Kg	SB3_11 L1213978-02 Soil 8/2/2012 NA mg/Kg	SB4_4 L1213978-03 Soil 8/2/2012 NA mg/Kg	SB4_13 L1213978-04 Soil 8/2/2012 NA mg/Kg	SB5_8 L1213978-05 Soil 8/2/2012 NA mg/Kg	SB1_10 L1213978-06 Soil 8/3/2012 NA mg/Kg	SB1_13.5 L1213978-07 Soil 8/3/2012 NA mg/Kg	SB2_4 L1213978-08 Soil 8/3/2012 NA mg/Kg	SB2_10 L1213978-09 Soil 8/3/2012 NA mg/Kg	DUP_1 L1213978-10 Soil 8/3/2012 NA mg/Kg
Laboratory ID												
Sample Media												
Sample Date												
Depth of Water												
Unit of Measure												
BENZO(A)ANTHRACENE	1.00	1.00	0.41 J	0.12 U	1.5	0.12 U	0.11 U	1.1 U	1.1 U	0.92	0.11 U	1.00
BENZO(A)PYRENE	1.00	1.00	1.6 U	0.16 U	1.3 J	0.16 U	0.14 U	1.5 U	1.5 U	0.81	0.15 U	0.84
BENZO(B)FLUORANTHENE	1.00	1.00	0.43 J	0.12 U	1.6	0.12 U	0.11 U	1.1 U	1.1 U	1	0.11 U	0.95
BENZO(GHI)PERYLENE	100.00	100.00	1.6 U	0.16 U	0.84 J	0.16 U	0.14 U	1.5 U	1.5 U	0.48	0.15 U	0.44
BENZO(K)FLUORANTHENE	0.80	3.90	1.2 U	0.12 U	0.68 J	0.12 U	0.11 U	1.1 U	1.1 U	0.32	0.11 U	0.49
BENZOIC ACID	NS	NS	6.3 U	0.65 U	6 U	0.64 U	0.58 U	6 U	6.2 U	0.58 U	0.59 U	0.59 U
BENZYL ALCOHOL	NS	NS	1.90 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
BIPHENYL	NS	NS	4.4 U	0.46 U	4.2 U	0.45 U	0.4 U	4.2 U	4.3 U	0.41 U	0.42 U	0.41 U
BIS(2-CHLOROETHOXY)METHANE	NS	NS	2.1 U	0.22 U	2 U	0.21 U	0.19 U	2 U	2 U	0.2 U	0.2 U	0.20 U
BIS(2-CHLOROETHYL)ETHER	NS	NS	1.7 U	0.18 U	1.7 U	0.18 U	0.16 U	1.6 U	1.7 U	0.16 U	0.16 U	0.16 U
BIS(2-CHLOROISOPROPYL)ETHER	NS	NS	2.3 U	0.24 U	2.2 U	0.24 U	0.21 U	2.2 U	2.3 U	0.22 U	0.22 U	0.22 U
BIS(2-ETHYLHEXYL)PHTHALATE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
BUTYL BENZYL PHTHALATE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
CARBAZOLE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.2	0.18 U	0.23
CHRYSENE	1.00	3.90	0.38 J	0.12 U	1.7	0.12 U	0.11 U	1.1 U	1.1 U	0.89	0.11 U	0.99
DI-N-BUTYLPHTHALATE	NS	NS	1.90 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
DI-N-OCTYLPHTHALATE	NS	NS	1.90 U	0.2 U	1.8 U	0.20 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
DIBENZO(A,H)ANTHRACENE	0.33	0.33	1.2 U	0.12 U	1.1 U	0.12 U	0.11 U	1.1 U	1.1 U	0.1 J	0.11 U	0.09 J
DIBENZOFURAN	7.00	59.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.11 J	0.18 U	0.16 J
DIETHYL PHTHALATE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
DIMETHYL PHTHALATE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
FLUORANTHENE	100.00	100.00	0.79 J	0.12 U	3.3	0.12 U	0.11 U	1.1 U	1.1 U	2.40	0.11 U	2.60
FLUORENE	30.00	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.14 J	0.18 U	0.18
HEXACHLOROBENZENE	0.33	1.20	1.2 U	0.12 U	1.1 U	0.12 U	0.11 U	1.1 U	1.1 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
HEXACHLOROCYCLOPENTADIENE	NS	NS	5.6 U	0.58 U	5.3 U	0.56 U	0.51 U	5.3 U	5.4 U	0.52 U	0.52 U	0.52 U
HEXACHLOROETHANE	NS	NS	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.14 U	0.15 U	0.14 U
INDENO(1,2,3-CD)PYRENE	0.50	0.50	1.6 U	0.16 U	1 J	0.16 U	0.14 U	1.5 U	1.5 U	0.54	0.15 U	0.53
ISOPHORONE	NS	NS	1.7 U	0.18 U	1.7 U	0.18 U	0.16 U	1.6 U	1.7 U	0.16 U	0.16 U	0.16 U
N-NITROSODI-N-PROPYLAMINE	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
NAPHTHALENE	12.00	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.07 J
NITROBENZENE	NS	15.00	1.7 U	0.18 U	1.7 U	0.18 U	0.16 U	1.6 U	1.7 U	0.16 U	0.16 U	0.16 U
NITROSODIPHENYLAMINE (NDPA)/DPA	NS	NS	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.14 U	0.15 U	0.14 U
P-CHLORO-M-CRESOL	NS	NS	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
PENTACHLOROPHENOL	0.80	6.7	1.6 U	0.16 U	1.5 U	0.16 U	0.14 U	1.5 U	1.5 U	0.14 U	0.15 U	0.14 U
PHENANTHRENE	100.00	100.00	0.64 J	0.12 U	2.7	0.12 U	0.11 U	1.1 U	1.1 U	2.2	0.11 U	2.40
PHENOL	0.33	100.00	1.9 U	0.2 U	1.8 U	0.2 U	0.18 U	1.8 U	1.9 U	0.18 U	0.18 U	0.18 U
PYRENE	100.00	100.00	0.66 J	0.12 U	2.9	0.12 U	0.11 U	1.1 U	1.1 U	2.1	0.11 U	2.20

Notes:

Italicized value indicates reporting limit exceeds standard  
 Bold value indicates concentration exceeds Unrestricted SCOs  
 Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs  
 J = Estimated value  
 U = Not detected  
 NS = No Standard  
 \* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs  
 \*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 3  
Soil Analytical Data - Metals  
RELATED - 505 West 27th Street  
New York, New York

Sample ID			SB3_3	SB3_11	SB4_4	SB4_13	SB5_8
Laboratory ID			L1213978-01	L1213978-02	L1213978-03	L1213978-04	L1213978-05
Sample Media	Part 375	Part 375	Soil	Soil	Soil	Soil	Soil
Sample Date	Unrestricted Use	Restricted	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Depth of Water	SCOs*	Residential	NA	NA	NA	NA	NA
Unit of Measure		SCOs**	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>METALS</b>							
ALUMINUM	NS	NS	5300	11000	3900	5400	9900
ANTIMONY	NS	NS	1.1 J	1.5 J	2.8 J	0.89 J	1.2 J
ARSENIC	13.00	16.00	8.6	2.7	5.2	1.2	4
BARIUM	350.00	400.00	<b>1000</b>	110	<b>660</b>	46	80
BERYLLIUM	7.20	72.00	0.28 J	0.7	0.16 J	0.32 J	0.35 J
CADMIUM	2.50	4.30	0.7 J	0.93 U	0.74 J	0.9 U	0.82 U
CALCIUM	NS	NS	48000	3000	46000	1500	30000
COBALT	NS	NS	4.7	9	3.1	4.4	8
COPPER	50.00	270.00	31	18	26	11	22
IRON	NS	NS	8800	19000	9500	10000	13000
LEAD	63.00	400.00	<b>580</b>	15	<b>390</b>	5.7	16
MAGNESIUM	NS	NS	3500	4100	2500	2000	21000
MANGANESE	1600.00	2000.00	250	610	210	90	660
MERCURY	0.18	0.81	<b>0.34</b>	0.09 U	<b>0.41</b>	0.08 U	0.03 J
NICKEL	30.00	310.00	19	21	12	14	23
POTASSIUM	NS	NS	1300	3100	830	1200	3700
SELENIUM	3.90	180.00	0.95 J	0.81 J	0.39 J	1.8 U	1.6 U
SILVER	2.00	180.00	0.9 U	0.93 U	0.16 J	0.9 U	0.82 U
SODIUM	NS	NS	520	410	320	200	410
THALLIUM	NS	NS	1.8 U	1.8 U	1.7 U	1.8 U	0.8 J
VANADIUM	NS	NS	18	27	15	18	17
ZINC	109.00	10000.00	<b>760</b>	44	<b>610</b>	20	33
CYANIDE	27.00	27.00	1.1	1.2 U	1.3	1.1 U	1.1 U
HEXAVALENT CHROMIUM	1.00	110.00	0.94 U	0.23 J	0.91 U	0.95 U	0.86 U
TRIVALENT CHROMIUM	30.00	180.00	18	20	8.7	14	16

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential



Table 3  
Soil Analytical Data - Metals  
RELATED - 505 West 27th Street  
New York, New York

Sample ID	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB1_10 L1213978-06 Soil 8/3/2012 NA mg/Kg	SB1_13.5 L1213978-07 Soil 8/3/2012 NA mg/Kg	SB2_4 L1213978-08 Soil 8/3/2012 NA mg/Kg	SB2_10 L1213978-09 Soil 8/3/2012 NA mg/Kg	DUP_1 L1213978-10 Soil 8/3/2012 NA mg/Kg
Laboratory ID							
Sample Media							
Sample Date							
Depth of Water							
Unit of Measure							
<b>METALS</b>							
ALUMINUM	NS	NS	12000	8000	11000	11000	12000
ANTIMONY	NS	NS	1.7 J	1.7 J	1.9 J	1.6 J	1.8 J
ARSENIC	13.00	16.00	2.2	2.3	3.1	4.1	3.5
BARIUM	350.00	400.00	57	140	93	44	110
BERYLLIUM	7.20	72.00	0.45	0.42 J	0.49	0.43	0.53
CADMIUM	2.50	4.30	1.7	0.88 U	0.84 U	0.85 U	0.84 U
CALCIUM	NS	NS	4000	3600	7000	1000	9700
COBALT	NS	NS	6.1	5.8	9.5	7.1	10
COPPER	50.00	270.00	14	16	30	17	36
IRON	NS	NS	15000	12000	18000	18000	20000
LEAD	63.00	400.00	30	<b>75</b>	56	8.8	<b>73</b>
MAGNESIUM	NS	NS	3300	2600	5000	3700	5500
MANGANESE	1600.00	2000.00	220	210	400	370	690
MERCURY	0.18	0.81	0.12	<b>0.25</b>	<b>0.74</b>	0.09 U	<b>0.61</b>
NICKEL	30.00	310.00	15	14	21	18	22
POTASSIUM	NS	NS	1300	1100	3700	960	4400
SELENIUM	3.90	180.00	0.31 J	0.72 J	1.7 U	0.42 J	0.46 J
SILVER	2.00	180.00	0.85 U	0.88 U	0.84 U	0.85 U	0.84 U
SODIUM	NS	NS	230	240	340	220	470
THALLIUM	NS	NS	1.7 U	1.8 U	1.7 U	1.7 U	0.6 J
VANADIUM	NS	NS	20	19	23	19	24
ZINC	109.00	10000.00	43	45	57	38	62
CYANIDE	27.00	27.00	1 U	1 U	1 U	1.1 U	1.1 U
HEXAVALENT CHROMIUM	1.00	110.00	0.9 U	0.92 U	0.21 J	0.89 U	0.33 J
TRIVALENT CHROMIUM	30.00	180.00	18	16	18	15	17

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 4  
Soil Analytical Data - PCBs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID			SB3_3	SB3_11	SB4_4	SB4_13	SB5_8
Laboratory ID			L1213978-01	L1213978-02	L1213978-03	L1213978-04	L1213978-05
Sample Media	Part 375	Part 375	Soil	Soil	Soil	Soil	Soil
Sample Date	Unrestricted Use	Restricted	8/2/2012	8/2/2012	8/2/2012	8/2/2012	8/2/2012
Depth of Water	SCOs*	Residential	NA	NA	NA	NA	NA
Unit of Measure		SCOs**	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>POLYCHLORINATED BIPHENYLS</b>							
AROCLOR 1016	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1221	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1232	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1242	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1248	NS	NS	0.0376 U	0.0393 U	0.0368 U	0.038 U	0.0354 U
AROCLOR 1254	NS	NS	0.0376 U	0.0393 U	0.0482	0.038 U	0.0354 U
AROCLOR 1260	NS	NS	0.0376 U	0.0393 U	0.06	0.038 U	0.0354 U
TOTAL PCBs	0.10	1.00	0.0376 U	0.0393 U	<b>0.11</b>	0.038 U	0.0354 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 4  
Soil Analytical Data - PCBs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID			SB1_10	SB1_13.5	SB2_4	SB2_10	DUP_1
Laboratory ID			L1213978-06	L1213978-07	L1213978-08	L1213978-09	L1213978-10
Sample Media	Part 375	Part 375	Soil	Soil	Soil	Soil	Soil
Sample Date	Unrestricted Use	Restricted	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012
Depth of Water	SCOs*	Residential	NA	NA	NA	NA	NA
Unit of Measure		SCOs**	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>POLYCHLORINATED BIPHENYLS</b>							
AROCLOR 1016	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1221	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1232	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1242	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1248	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1254	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
AROCLOR 1260	NS	NS	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U
TOTAL PCBs	0.10	1.00	0.0358 U	0.0376 U	0.0353 U	0.0363 U	0.0361 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 5  
Soil Analytical Data - Pesticides  
RELATED - 505 West 27th Street  
New York, New York

Sample ID	Part 375 Unrestricted Use SCOs*	Part 375 Restricted Residential SCOs**	SB3_3 L1213978-01 Soil 8/2/2012 NA mg/Kg	SB3_11 L1213978-02 Soil 8/2/2012 NA mg/Kg	SB4_4 L1213978-03 Soil 8/2/2012 NA mg/Kg	SB4_13 L1213978-04 Soil 8/2/2012 NA mg/Kg	SB5_8 L1213978-05 Soil 8/2/2012 NA mg/Kg
Laboratory ID							
Sample Media							
Sample Date							
Depth of Water							
Unit of Measure							
<b>PESTICIDES</b>							
4,4'-DDD	0.0033	13.00	<i>0.0093 U</i>	0.00182 U	<b>0.0063 J</b>	0.00181 U	0.00165 U
4,4'-DDE	0.0033	8.90	<i>0.0093 U</i>	0.00182 U	<i>0.0087 U</i>	0.00181 U	0.00165 U
4,4'-DDT	0.0033	7.90	<i>0.0174 U</i>	<i>0.0034 U</i>	<b>0.0244</b>	<i>0.0034 U</i>	0.0031 U
ALDRIN	0.0050	0.10	<i>0.0093 U</i>	0.00182 U	<i>0.0087 U</i>	0.00181 U	0.00165 U
ALPHA-BHC	0.0200	0.48	0.00387 U	0.00076 U	0.00361 U	0.00076 U	0.00069 U
BETA-BHC	0.0360	0.36	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
CHLORDANE	NS	NS	0.0755 U	0.0148 U	0.0705 U	0.0147 U	0.0134 U
CIS-CHLORDANE	0.0940	4.20	0.0116 U	0.00228 U	0.0108 U	0.00227 U	0.00206 U
DELTA-BHC	0.0400	100.00	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
DIELDRIN	0.0050	0.20	<i>0.0058 U</i>	0.00114 U	<b>0.0074</b>	0.00113 U	0.00103 U
ENDOSULFAN I	2.4000	24.00	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
ENDOSULFAN II	2.4000	24.00	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
ENDOSULFAN SULFATE	2.4000	24.00	0.00387 U	0.00076 U	0.00361 U	0.00076 U	0.00069 U
ENDRIN	0.0140	11.00	0.00387 U	0.00076 U	0.00477	0.00076 U	0.00069 U
ENDRIN KETONE	NS	NS	0.00929 U	0.00182 U	0.00867 U	0.00181 U	0.00165 U
HEPTACHLOR	0.0420	2.10	0.00465 U	0.00091 U	0.00434 U	0.00091 U	0.00083 U
HEPTACHLOR EPOXIDE	NS	NS	0.02 U	0.00342 U	0.0163 U	0.00 U	0.0031 U
LINDANE	0.1000	1.30	0.00387 U	0.00076 U	0.00361 U	0.00076 U	0.00069 U
METHOXYCHLOR	NS	NS	0.0174 U	0.00342 U	0.0163 U	0.0034 U	0.0031 U
TOXAPHENE	NS	NS	0.174 U	0.0342 U	0.163 U	0.034 U	0.031 U
TRANS-CHLORDANE	NS	NS	0.0116 U	0.00228 U	0.0108 U	0.00227 U	0.00206 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 5  
Soil Analytical Data - Pesticides  
RELATED - 505 West 27th Street  
New York, New York

Sample ID			SB1_10	SB1_13.5	SB2_4	SB2_10	DUP_1
Laboratory ID			L1213978-06	L1213978-07	L1213978-08	L1213978-09	L1213978-10
Sample Media	Part 375	Part 375	Soil	Soil	Soil	Soil	Soil
Sample Date	Unrestricted Use	Restricted	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012
Depth of Water	SCOs*	Residential	NA	NA	NA	NA	NA
Unit of Measure		SCOs**	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>PESTICIDES</b>							
4,4'-DDD	0.0033	13.00	<i>0.0089 U</i>	<i>0.0087 U</i>	<i>0.0083 U</i>	0.00177 U	0.00176 U
4,4'-DDE	0.0033	8.90	<i>0.0089 U</i>	<i>0.0087 U</i>	<i>0.0083 U</i>	0.00177 U	0.00176 U
4,4'-DDT	0.0033	7.90	<i>0.0166 U</i>	<i>0.0163 U</i>	<i>0.0155 U</i>	<i>0.0033 U</i>	0.00329 U
ALDRIN	0.0050	0.10	<i>0.0089 U</i>	<i>0.0087 U</i>	<i>0.0083 U</i>	0.00177 U	0.00176 U
ALPHA-BHC	0.0200	0.48	0.0037 U	0.00363 U	0.00345 U	0.00074 U	0.00073 U
BETA-BHC	0.0360	0.36	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
CHLORDANE	NS	NS	0.0721 U	0.0708 U	0.0673 U	0.0144 U	0.0143 U
CIS-CHLORDANE	0.0940	4.20	0.0111 U	0.0109 U	0.0104 U	0.00221 U	0.0022 U
DELTA-BHC	0.0400	100.00	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
DIELDRIN	0.0050	0.20	<i>0.0055 U</i>	<i>0.0054 U</i>	<i>0.0052 U</i>	0.0011 U	0.0011 U
ENDOSULFAN I	2.4000	24.00	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
ENDOSULFAN II	2.4000	24.00	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
ENDOSULFAN SULFATE	2.4000	24.00	0.0037 U	0.00363 U	0.00345 U	0.00074 U	0.00073 U
ENDRIN	0.0140	11.00	0.0037 U	0.00363 U	0.00345 U	0.00074 U	0.00073 U
ENDRIN KETONE	NS	NS	0.00887 U	0.00871 U	0.00828 U	0.00177 U	0.00176 U
HEPTACHLOR	0.0420	2.10	0.00444 U	0.00435 U	0.00414 U	0.00088 U	0.00088 U
HEPTACHLOR EPOXIDE	NS	NS	0.0166 U	0.0163 U	0.02 U	0.00331 U	0.00329 U
LINDANE	0.1000	1.30	0.0037 U	0.00363 U	0.00345 U	0.00074 U	0.00073 U
METHOXYCHLOR	NS	NS	0.0166 U	0.0163 U	0.0155 U	0.00331 U	0.00329 U
TOXAPHENE	NS	NS	0.166 U	0.163 U	0.155 U	0.0331 U	0.0329 U
TRANS-CHLORDANE	NS	NS	0.0111 U	0.0109 U	0.0104 U	0.00221 U	0.0022 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds Unrestricted SCOs

Bold and shaded value indicates concentration exceeds Restricted-Residential SCOs

J = Estimated value

U = Not detected

NS = No Standard

\* = 6 NYCRR Part 375-6.8(a) Unrestricted Use SCOs

\*\* = 6 NYCRR Part 375-6.8(b) Restricted Use SCOs Restricted-Residential

Table 6  
Groundwater Analytical Data - VOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012 L1214402-01	MW-2_081012 L1214402-02	MW-3_081012 L1214402-03	MW-4_081012 L1214402-04	FIELD_DUP_081012 L1214402-05
Laboratory ID	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Media	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Sample Date		NA	NA	NA	NA	NA
Depth of Water		µg/L	µg/L	µg/L	µg/L	µg/L
Unit of Measure						
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-TETRACHLOROETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,1,1-TRICHLOROETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	2.5 U	0.5 U	0.5 U	2.5 U
1,1,2-TRICHLOROETHANE	1	<i>1.5 U</i>	<i>7.5 U</i>	<i>1.5 U</i>	<i>1.5 U</i>	<i>7.5 U</i>
1,1-DICHLOROETHANE	5	2.5 U	<b>8.4 J</b>	2.5 U	2.5 U	<b>9.9 J</b>
1,1-DICHLOROETHENE	5	0.5 U	2.5	0.5 U	0.5 U	3
1,1-DICHLOROPROPENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2,3-TRICHLOROBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2,3-TRICHLOROPROPANE	0.04	<i>2.5 U</i>	<i>12 U</i>	<i>2.5 U</i>	<i>2.5 U</i>	<i>12 U</i>
1,2,4,5-TETRAMETHYLBENZENE	NS	2 U	10 U	2 U	2 U	10 U
1,2,4-TRICHLOROBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2,4-TRIMETHYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<i>2.5 U</i>	<i>12 U</i>	<i>2.5 U</i>	<i>2.5 U</i>	<i>12 U</i>
1,2-DIBROMOETHANE	0.0006	<i>2 U</i>	<i>10 U</i>	<i>2 U</i>	<i>2 U</i>	<i>10 U</i>
1,2-DICHLOROBENZENE	3	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,2-DICHLOROETHANE	0.6	0.5 U	<i>2.5 U</i>	0.5 U	0.5 U	<i>2.5 U</i>
1,2-DICHLOROPROPANE	1	1 U	<i>5 U</i>	1 U	1 U	<i>5 U</i>
1,3,5-TRIMETHYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,3-DICHLOROBENZENE	3	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,3-DICHLOROPROPANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,4-DICHLOROBENZENE	3	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
1,4-DIETHYLBENZENE	NS	2 U	10 U	2 U	2 U	10 U
1,4-DIOXANE	NS	250 U	1200 U	250 U	250 U	1200 U
2,2-DICHLOROPROPANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
2-BUTANONE	50	5 U	25 U	1.9 J	5 U	25 U
2-HEXANONE	50	5 U	25 U	5 U	5 U	25 U
4-ETHYLTOLUENE	NS	2 U	10 U	2 U	2 U	10 U
4-METHYL-2-PENTANONE	NS	5 U	25 U	5 U	5 U	25 U
ACETONE	50	1.8 J	25 U	12	1.5 J	25 U
ACRYLONITRILE	5	5 U	<i>25 U</i>	5 U	5 U	<i>25 U</i>
BENZENE	1	0.5 U	<i>2.5 U</i>	0.5 U	0.5 U	<i>2.5 U</i>

Notes:  
 Italicized value indicates reporting limit exceeds standard  
 Bold value indicates concentration exceeds TOGS AWQS  
 J = Estimated value  
 U = Not detected  
 NS = No Standard  
 \* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 6  
Groundwater Analytical Data - VOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012 L1214402-01	MW-2_081012 L1214402-02	MW-3_081012 L1214402-03	MW-4_081012 L1214402-04	FIELD_DUP_081012 L1214402-05
Laboratory ID	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Media	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Sample Date		NA	NA	NA	NA	NA
Depth of Water		µg/L	µg/L	µg/L	µg/L	µg/L
Unit of Measure						
<b>VOLATILE ORGANIC COMPOUNDS</b>						
BROMOBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
BROMOCHLOROMETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
BROMODICHLOROMETHANE	50	0.5 U	2.5 U	0.5 U	0.5 U	2.5 U
BROMOFORM	50	2 U	10 U	2 U	2 U	10 U
BROMOMETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
CARBON DISULFIDE	60	5 U	25 U	5 U	5 U	25 U
CARBON TETRACHLORIDE	5	0.5 U	2.5 U	0.5 U	0.5 U	2.5 U
CHLOROBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
CHLOROETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
CHLOROFORM	7	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
CHLOROMETHANE	NS	2.5 U	12 U	2.5 U	2.5 U	12 U
CIS-1,2-DICHLOROETHENE	5	1.9 J	<b>220</b>	2.5 U	2.5 U	<b>260</b>
CIS-1,3-DICHLOROPROPENE	0.4	<i>0.5 U</i>	<i>2.5 U</i>	<i>0.5 U</i>	<i>0.5 U</i>	<i>2.5 U</i>
DIBROMOCHLOROMETHANE	50	0.5 U	2.5 U	0.5 U	0.5 U	2.5 U
DIBROMOMETHANE	5	5 U	<i>25 U</i>	5 U	5 U	<i>25 U</i>
DICHLORODIFLUOROMETHANE	5	5 U	<i>25 U</i>	5 U	5 U	<i>25 U</i>
ETHYL ETHER	NS	2.5 U	12 U	2.5 U	2.5 U	12 U
ETHYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
HEXACHLOROBUTADIENE	0.5	<i>2.5 U</i>	<i>12 U</i>	<i>2.5 U</i>	<i>2.5 U</i>	<i>12 U</i>
ISOPROPYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
METHYL TERT BUTYL ETHER	10	0.95 J	5.3 J	2.5 U	2.5 U	5.6 J
METHYLENE CHLORIDE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
N-BUTYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
N-PROPYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
NAPHTHALENE	10	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
O-CHLOROTOLUENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
O-XYLENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
P-CHLOROTOLUENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
P-ISOPROPYLTOLUENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
P/M-XYLENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
SEC-BUTYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>

Notes:  
 Italicized value indicates reporting limit exceeds standard  
 Bold value indicates concentration exceeds TOGS AWQS  
 J = Estimated value  
 U = Not detected  
 NS = No Standard  
 \* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 6  
Groundwater Analytical Data - VOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>VOLATILE ORGANIC COMPOUNDS</b>						
STYRENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
TERT-BUTYLBENZENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
TETRACHLOROETHENE	5	0.97	2.5 U	0.5 U	0.59	2.5 U
TOLUENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
TRANS-1,2-DICHLOROETHENE	5	2.5 U	4 J	2.5 U	2.5 U	4.8 J
TRANS-1,3-DICHLOROPROPENE	0.4	<i>0.5 U</i>	<i>2.5 U</i>	<i>0.5 U</i>	<i>0.5 U</i>	<i>2.5 U</i>
TRANS-1,4-DICHLORO-2-BUTENE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
TRICHLOROETHENE	5	0.5 U	2.5 U	0.31 J	0.8	2.5 U
TRICHLOROFLUOROMETHANE	5	2.5 U	<i>12 U</i>	2.5 U	2.5 U	<i>12 U</i>
VINYL ACETATE	NS	5 U	25 U	5 U	5 U	25 U
VINYL CHLORIDE	2	1 U	<i>5 U</i>	1 U	1 U	<i>5 U</i>

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)



Table 7  
Groundwater Analytical Data - SVOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>SEMIVOLATILE ORGANIC COMPOUNDS</b>						
1,2,4,5-TETRACHLOROBENZENE	5	<i>10 U</i>	<i>10 U</i>	<i>10 U</i>	<i>10 U</i>	<i>10 U</i>
1,2,4-TRICHLOROBENZENE	5	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROBENZENE	3	2 U	2 U	2 U	2 U	2 U
1,3-DICHLOROBENZENE	3	2 U	2 U	2 U	2 U	2 U
1,4-DICHLOROBENZENE	3	2 U	2 U	2 U	2 U	2 U
2,4,5-TRICHLOROPHENOL	NS	5 U	5 U	5 U	5 U	5 U
2,4,6-TRICHLOROPHENOL	NS	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	1	<i>5 U</i>	<i>5 U</i>	<i>5 U</i>	<i>5 U</i>	<i>5 U</i>
2,4-DIMETHYLPHENOL	50	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	10	<i>20 U</i>	<i>20 U</i>	<i>20 U</i>	<i>20 U</i>	<i>20 U</i>
2,4-DINITROTOLUENE	5	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	NS	2 U	2 U	2 U	2 U	2 U
2-METHYLPHENOL	NS	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	5	5 U	5 U	5 U	5 U	5 U
2-NITROPHENOL	NS	10 U	10 U	10 U	10 U	10 U
3,3'-DICHLOROBENZIDINE	5	5 U	5 U	5 U	5 U	5 U
3-METHYLPHENOL/4-METHYLPHENOL	NS	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	5	5 U	5 U	5 U	5 U	5 U
4,6-DINITRO-O-CRESOL	NS	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	NS	2 U	2 U	2 U	2 U	2 U
4-CHLOROANILINE	5	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	NS	2 U	2 U	2 U	2 U	2 U
4-NITROANILINE	5	5 U	<i>5 U</i>	5 U	5 U	<i>5 U</i>
4-NITROPHENOL	NS	10 U	<i>10 U</i>	10 U	10 U	<i>10 U</i>
ACETOPHENONE	NS	5 U	<i>5 U</i>	5 U	5 U	<i>5 U</i>
BENZOIC ACID	NS	50 U	50 U	13 J	50 U	50 U
BENZYL ALCOHOL	NS	2 U	<i>2 U</i>	0.74 J	2 U	<i>2 U</i>
BIPHENYL	NS	2 U	2 U	2 U	2 U	2 U
BIS(2-CHLOROETHOXY)METHANE	5	5 U	5 U	5 U	5 U	5 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 7  
Groundwater Analytical Data - SVOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>SEMIVOLATILE ORGANIC COMPOUNDS</b>						
BIS(2-CHLOROETHYL)ETHER	1	2 U	2 U	2 U	2 U	2 U
BIS(2-CHLOROISOPROPYL)ETHER	5	2 U	2 U	2 U	2 U	2 U
BIS(2-ETHYLHEXYL)PHTHALATE	5	3 U	3 U	6.1	3 U	3 U
BUTYL BENZYL PHTHALATE	50	5 U	5 U	0.83 J	5 U	5 U
CARBAZOLE	NS	2 U	2 U	2 U	2 U	2 U
DI-N-BUTYLPHTHALATE	50	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYLPHTHALATE	50	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	NS	2 U	2 U	2 U	2 U	2 U
DIETHYL PHTHALATE	50	5 U	5 U	0.58 J	5 U	5 U
DIMETHYL PHTHALATE	50	5 U	5 U	5 U	5 U	5 U
HEXACHLOROCYCLOPENTADIENE	5	20 U	20 U	20 U	20 U	20 U
ISOPHORONE	50	5 U	5 U	5 U	5 U	5 U
N-NITROSODI-N-PROPYLAMINE	NS	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	0.4	2 U	2 U	2 U	2 U	2 U
NITROSODIPHENYLAMINE(NDPA)/DPA	50	2 U	2 U	2 U	2 U	2 U
P-CHLORO-M-CRESOL	NS	2 U	2 U	2 U	2 U	2 U
PHENOL	1	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	10	0.2 U	0.2 U	1 U	0.2 U	0.2 U
2-METHYLNAPHTHALENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
ACENAPHTHENE	20	0.2 U	0.2 U	1 U	0.2 U	0.2 U
ACENAPHTHYLENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
ANTHRACENE	50	0.2 U	0.2 U	1 U	0.2 U	0.2 U
BENZO(A)ANTHRACENE	NS	0.2 U	0.2 U	0.38 J	0.2 U	0.2 U
BENZO(A)PYRENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
BENZO(B)FLUORANTHENE	0.002	0.2 U	0.2 U	0.4 J	0.2 U	0.2 U
BENZO(GHI)PERYLENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
BENZO(K)FLUORANTHENE	0.002	0.2 U	0.2 U	1 U	0.2 U	0.2 U
CHRYSENE	0.002	0.29	0.2 U	0.48 J	0.2 U	0.2 U
DIBENZO(A,H)ANTHRACENE	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U
FLUORANTHENE	50	0.2 U	0.2 U	0.83 J	0.08 J	0.2 U

Notes:  
 Italicized value indicates reporting limit exceeds standard  
 Bold value indicates concentration exceeds TOGS AWQS  
 J = Estimated value  
 U = Not detected  
 NS = No Standard  
 \* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 7  
Groundwater Analytical Data - SVOCs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>SEMIVOLATILE ORGANIC COMPOUNDS</b>						
FLUORENE	50	0.06 J	0.2 U	1 U	0.2 U	0.2 U
HEXACHLOROBENZENE	0.04	<i>0.8 U</i>	<i>0.8 U</i>	<i>4 U</i>	<i>0.8 U</i>	<i>0.8 U</i>
HEXACHLOROBUTADIENE	0.5	0.5 U	0.5 U	<i>2.5 U</i>	0.5 U	0.5 U
HEXACHLOROETHANE	5	0.8 U	0.8 U	4 U	0.8 U	0.8 U
INDENO(1,2,3-CD)PYRENE	0.002	<i>0.2 U</i>	<i>0.2 U</i>	<i>1 U</i>	<i>0.2 U</i>	<i>0.2 U</i>
NAPHTHALENE	10	0.2 U	0.2 U	1 U	0.2 U	0.2 U
PENTACHLOROPHENOL	1	0.8 U	0.8 U	<i>4 U</i>	0.8 U	0.8 U
PHENANTHRENE	50	0.2 U	0.2 U	1 U	0.2 U	0.2 U
PYRENE	50	0.16 J	0.2 U	0.64 J	0.08 J	0.2 U

Notes:  
 Italicized value indicates reporting limit exceeds standard  
 Bold value indicates concentration exceeds TOGS AWQS  
 J = Estimated value  
 U = Not detected  
 NS = No Standard  
 \* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 8  
Groundwater Analytical Data - Metals  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>TOTAL METALS</b>						
ALUMINUM	NS	23300	38900	17800	333	30400
ANTIMONY	3	5 U	5 U	5 U	5 U	5 U
ARSENIC	25	11.8	12.2	7.5	5 U	10.1
BARIUM	1000	439.9	546	543	72.2	443.9
BERYLLIUM	3	1.8 J	2.3 J	1.5 J	5 U	2.5 J
CADMIUM	5	5 U	5 U	0.7 J	5 U	5 U
CALCIUM	NS	206000	71300	268000	399000	73700
CHROMIUM	50	<b>287</b>	<b>89.1</b>	<b>62.7</b>	5.9 J	<b>75</b>
COBALT	NS	29.3	29.8	18	1.1 J	24.3
COPPER	200	85.7	109.6	88.1	9.3 J	100.9
IRON	300	<b>40600</b>	<b>49000</b>	<b>27700</b>	<b>972</b>	<b>37900</b>
LEAD	25	<b>89.1</b>	<b>84.4</b>	<b>158.9</b>	3.8 J	<b>67.1</b>
MAGNESIUM	35000	29500	<b>59000</b>	<b>37000</b>	<b>49200</b>	<b>61000</b>
MANGANESE	300	<b>4213</b>	<b>2190</b>	<b>3113</b>	61.9	<b>1935</b>
MERCURY	1	0.3	0.3	0.3	0.2 U	0.2
NICKEL	100	<b>294.4</b>	81.4	69.1	9.7	79.9
POTASSIUM	NS	24000	33600	38300	84800	34800
SELENIUM	10	3 J	9 J	<b>12 J</b>	<b>28 J</b>	9 J
SILVER	50	5 U	2.1 J	1.5 J	5 U	5 U
SODIUM	20000	<b>77800</b>	<b>171000</b>	<b>40600</b>	<b>79900</b>	<b>171000</b>
THALLIUM	1	5 U	5 U	5 U	5 U	5 U
VANADIUM	NS	64.1	55.5	37.4 J	2 J	52.5
ZINC	2000	131.2	161.9	206.7	23.6 J	132.3

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 8  
Groundwater Analytical Data - Metals  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>DISSOLVED METALS</b>						
ALUMINUM	NS	50 U	26 J	50 U	12 J	17 J
ANTIMONY	3	2.1 J	2.6 J	2.3 J	2.5 J	1.5 J
ARSENIC	25	2.5 U	1.1 J	2.5 U	2.5 U	1.2 J
BARIUM	1000	146.3	142.1	62.6	56.3	114.1
BERYLLIUM	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CALCIUM	NS	170000	62600	209000	385000	60600
CHROMIUM	50	5 U	5 U	2.9 J	2.9 J	5 U
COBALT	NS	2.9	2.5 U	1.1 J	0.6 J	0.7 J
COPPER	200	4.4 J	3 J	5.7	6.5	3.5 J
IRON	300	89 J	250 U	86 J	158 J	250 U
LEAD	25	5 U	5 U	5 U	5 U	5 U
MAGNESIUM	35000	20800	<b>53000</b>	23500	<b>44100</b>	<b>45200</b>
MANGANESE	300	<b>2582</b>	<b>606</b>	<b>1286</b>	41.3	<b>756.5</b>
MERCURY	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL	100	20	3	5.7	7.1	14.8
POTASSIUM	NS	18700	28400	33000	84600	28300
SELENIUM	10	<i>25 U</i>	7 J	10 J	<b>25</b>	6 J
SILVER	50	2.5 U	3	2.5 U	2.5 U	2.5 U
SODIUM	20000	<b>78200</b>	<b>134000</b>	<b>39600</b>	<b>73400</b>	<b>147000</b>
THALLIUM	0.5	<i>2.5 U</i>	<i>2.5 U</i>	<i>2.5 U</i>	<i>2.5 U</i>	<i>2.5 U</i>
VANADIUM	NS	0.8 J	3.1 J	0.7 J	1 J	3.9 J
ZINC	2000	50 U	50 U	50 U	50 U	50 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 9  
Groundwater Analytical Data - PCBs  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>POLYCHLORINATED BIPHENYLS</b>						
AROCLOR 1016	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1221	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1232	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1242	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1248	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1254	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
AROCLOR 1260	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
TOTAL PCBs	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U

Notes:  
 Italicized value indicates reporting limit exceeds standard  
 Bold value indicates concentration exceeds TOGS AWQS  
 J = Estimated value  
 U = Not detected  
 NS = No Standard  
 \* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 10  
Groundwater Analytical Data - Pesticides  
RELATED - 505 West 27th Street  
New York, New York

Sample ID		MW-1_081012	MW-2_081012	MW-3_081012	MW-4_081012	FIELD_DUP_081012
Laboratory ID		L1214402-01	L1214402-02	L1214402-03	L1214402-04	L1214402-05
Sample Media	NYSDEC TOGS	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Date	AWQS*	8/10/2012	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Depth of Water		NA	NA	NA	NA	NA
Unit of Measure		µg/L	µg/L	µg/L	µg/L	µg/L
<b>PESTICIDES</b>						
2,4,5-T	35.000	2 U	2.02 U	2.05 U	2.09 U	2.05 U
2,4,5-TP (SILVEX)	NS	2 U	2.02 U	2.05 U	2.09 U	2.05 U
2,4-D	50.0	10 U	10.1 U	10.2 U	10.5 U	10.2 U
4,4'-DDD	0.3	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	0.200	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	0.20	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
ALDRIN	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
ALPHA-BHC	0.010	<i>0.02 U</i>	<i>0.02 U</i>	<i>0.02 U</i>	<i>0.02 U</i>	<i>0.02 U</i>
BETA-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
CHLORDANE	0.05	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>
CIS-CHLORDANE	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
DELTA-BHC	0.040	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
DIELDRIN	0.004	<i>0.04 U</i>	<i>0.04 U</i>	<i>0.04 U</i>	<i>0.04 U</i>	<i>0.04 U</i>
ENDOSULFAN I	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
ENDOSULFAN II	NS	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
ENDOSULFAN SULFATE	NS	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
ENDRIN	NS	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
ENDRIN KETONE	5	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
HEPTACHLOR	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
HEPTACHLOR EPOXIDE	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
LINDANE	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
METHOXYCHLOR	35	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TOXAPHENE	0.06	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>	<i>0.2 U</i>
TRANS-CHLORDANE	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds TOGS AWQS

J = Estimated value

U = Not detected

NS = No Standard

\* = NYSDEC TOGS 1.1.1. Ambient Water Quality Standards (AWQS)

Table 11  
Soil Vapor Analytical Data  
RELATED - 505 West 27th Street  
New York, New York

Sample ID Laboratory ID Sample Media Sample Date Unit of Measure	NYSDOH AGVs*	SV-1 L1214017-01 Vapor 8/1/2012 µg/m3	SV-3 L1214017-02 Vapor 8/1/2012 µg/m3	SV-4 L1214017-03 Vapor 8/1/2012 µg/m3
<b>VOLATILE ORGANIC COMPOUNDS (TO-15)</b>				
1,1,1-TRICHLOROETHANE**	NS	17.20	12.80	107.00
1,1,2,2-TETRACHLOROETHANE	NS	3.43 U	6.87 U	6.87 U
1,1,2-TRICHLOROETHANE	NS	2.73 U	5.46 U	5.46 U
1,1-DICHLOROETHANE	NS	2.02 U	4.05 U	6.07
1,1-DICHLOROETHENE**	NS	1.98 U	3.96 U	3.96 U
1,2,4-TRICHLOROBENZENE	NS	3.71 U	7.42 U	7.42 U
1,2,4-TRIMETHYLBENZENE	NS	9.00	31.30	6.98
1,2-DIBROMOETHANE	NS	3.84 U	7.68 U	7.68 U
1,2-DICHLOROBENZENE	NS	3.01 U	6.01 U	6.01 U
1,2-DICHLOROETHANE	NS	2.02 U	4.05 U	4.05 U
1,2-DICHLOROPROPANE	NS	2.31 U	4.62 U	4.62 U
1,3,5-TRIMETHYBENZENE	NS	2.46 U	9.19	4.92 U
1,3-BUTADIENE	NS	2.37	7.92	5.26
1,3-DICHLOROBENZENE	NS	3.01 U	6.01 U	6.01 U
1,4-DICHLOROBENZENE	NS	3.01 U	6.01 U	6.01 U
1,4-DIOXANE	NS	1.80 U	3.60 U	3.60 U
2,2,4-TRIMETHYLPENTANE	NS	2.34 U	4.67 U	4.67 U
2-BUTANONE	NS	67.50	103.00	46.90
2-HEXANONE	NS	10.90	13.40	10.70
3-CHLOROPROPENE	NS	1.56 U	3.13 U	3.13 U
4-ETHYLTOLUENE	NS	2.46 U	9.04	4.92 U
4-METHYL-2-PENTANONE	NS	10.20	15.90	11.40
ACETONE	NS	401.00	596.00	226.00
BENZENE	NS	2.29	13.70	3.70
BENZYL CHLORIDE	NS	2.59 U	5.18 U	5.18 U
BROMODICHLOROMETHANE	NS	3.35 U	6.70 U	6.70 U
BROMOFORM	NS	5.17 U	10.30 U	10.30 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds NYSDOH AGV

U = Not detected

NS = No Standard

\* = New York State Department of Health (NYSDOH) Air Guidance Values (AGVs)

\*\* = Volatile Organic Compounds subject to NYSDOH Soil Vapor/Indoor Decision Matrices



Table 11  
Soil Vapor Analytical Data  
RELATED - 505 West 27th Street  
New York, New York

Sample ID Laboratory ID Sample Media Sample Date Unit of Measure	NYSDOH AGVs*	SV-1 L1214017-01 Vapor 8/1/2012 µg/m3	SV-3 L1214017-02 Vapor 8/1/2012 µg/m3	SV-4 L1214017-03 Vapor 8/1/2012 µg/m3
<b>VOLATILE ORGANIC COMPOUNDS (TO-15)</b>				
BROMOMETHANE	NS	1.94 U	3.88 U	3.88 U
CARBON DISULFIDE	NS	3.30	16.60	3.18
CARBON TETRACHLORIDE**	NS	3.14 U	6.29 U	6.29 U
CHLOROBENZENE	NS	2.30 U	4.60 U	4.60 U
CHLOROETHANE	NS	1.32 U	2.64 U	2.64 U
CHLOROFORM	NS	2.88	4.88 U	8.20
CHLOROMETHANE	NS	1.03 U	2.06 U	2.06 U
CIS-1,2-DICHLOROETHENE**	NS	1.98 U	4.44	3.96 U
CIS-1,3-DICHLOROPROPENE	NS	2.27 U	4.54 U	4.54 U
CYCLOHEXANE	NS	1.72 U	3.44 U	3.44 U
DIBROMOCHLOROMETHANE	NS	4.26 U	8.52 U	8.52 U
DICHLORODIFLUOROMETHANE	NS	2.47 U	4.94 U	64.30
ETHANOL	NS	140.00	70.10	90.60
ETHYL ACETATE	NS	4.50 U	9.01 U	9.01 U
ETHYLBENZENE	NS	2.17 U	13.70	4.34 U
FREON-113	NS	3.83 U	7.66 U	12.90
FREON-114	NS	3.49 U	6.99 U	6.99 U
HEPTANE	NS	5.00	17.40	4.88
HEXACHLOROBUTADIENE	NS	5.33 U	10.70 U	10.70 U
ISOPROPANOL	NS	3.07 U	6.14 U	25.10
METHYL TERT BUTYL ETHER	NS	1.80 U	3.60 U	3.60 U
METHYLENE CHLORIDE	60.00	8.68 U	17.40 U	17.40 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds NYSDOH AGV

U = Not detected

NS = No Standard

\* = New York State Department of Health (NYSDOH) Air Guidance Values (AGVs)

\*\* = Volatile Organic Compounds subject to NYSDOH Soil Vapor/Indoor Decision Matrices

Table 11  
Soil Vapor Analytical Data  
RELATED - 505 West 27th Street  
New York, New York

Sample ID Laboratory ID Sample Media Sample Date Unit of Measure	NYSDOH AGVs*	SV-1 L1214017-01 Vapor 8/1/2012 µg/m3	SV-3 L1214017-02 Vapor 8/1/2012 µg/m3	SV-4 L1214017-03 Vapor 8/1/2012 µg/m3
<b>VOLATILE ORGANIC COMPOUNDS (TO-15)</b>				
N-HEXANE	NS	5.64	17.10	5.18
O-XYLENE	NS	2.48	12.20	4.34 U
P/M-XYLENE	NS	5.12	33.50	8.69 U
PROPYLENE	NS	2.51	93.80	61.40
STYRENE	NS	2.13 U	4.26 U	4.26 U
TETRACHLOROETHENE	100.00	<b>308.00</b>	<b>460.00</b>	<b>169.00</b>
TETRAHYDROFURAN	NS	4.22	2.95 U	2.95 U
TOLUENE	NS	9.34	28.40	4.22
TRANS-1,2-DICHLOROETHENE	NS	1.98 U	3.96 U	3.96 U
TRANS-1,3-DICHLOROPROPENE	NS	2.27 U	4.54 U	4.54 U
TRICHLOROETHENE	5.00	2.69 U	<b>20.40</b>	<b>100.00</b>
TRICHLOROFLUOROMETHANE	NS	226.00	338.00	1570.00
VINYL ACETATE	NS	10.30	3.52 U	3.52 U
VINYL BROMIDE	NS	2.19 U	4.37 U	4.37 U
VINYL CHLORIDE**	NS	1.28 U	2.56 U	2.56 U

Notes:

Italicized value indicates reporting limit exceeds standard

Bold value indicates concentration exceeds NYSDOH AGV

U = Not detected

NS = No Standard

\* = New York State Department of Health (NYSDOH) Air Guidance Values (AGVs)

\*\* = Volatile Organic Compounds subject to NYSDOH Soil Vapor/Indoor Decision Matrices

## **APPENDIX I**

### **BORING/MONITORING WELL LOGS**

SOIL BORING/WELL NUMBER SB-3/MW-3  
 PROJECT PE022  
 LOCATION 505 West 27th Street, New York, NY  
 PROJECT NUMBER PE022  
 LOGGED BY Greg Wyka  
 DRILLER AARCO Environmental Services, Inc.  
 DATE August 2, 2012



Sample ID/Time/Depth	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		@ 0'-1': Concrete		<b>GENERAL</b> <u>Total Borehole Depth:</u> 15' <u>Borehole Diameter:</u> 8.25" OD x 4.25" ID HSA <u>Monument Type:</u> 8" flush mount well cover  <b>MONITORING WELL</b> <u>Screen:</u> 10' of 0.020 slot well screen (2" PVC) <u>Riser:</u> 5' of solid riser (2" PVC) <u>Filter Pack:</u> #2 Morie Sand extends 2' above well screen <u>Bentonite grout:</u> 2' above #2 sand <u>Concrete:</u> 0'-0.5'
SB3_3 9:45 (1-3')	2-	SP	0.0ppm	@ 1'-3' FILL: light gray poorly graded SAND w/ concrete and brick fragments; some whole brick; little rock; little wood; little cinders; little pieces of electrical conduit; no odors		
	4-		0.0ppm	@ 3'-5' FILL: light gray poorly graded SAND w/ concrete and brick fragments; some whole brick; little rock; little wood; little cinders; no odors		
	6-			@ 5'-7': No recovery		
	8-		0.0ppm	@ 7'-9' FILL: light gray poorly graded SAND w/ concrete and brick fragments; some whole brick; little rock; little wood; little cinders; little pieces of electrical conduit; no odors		
SB3_11 10:05 (9-11')	10-	CL	0.0ppm	@ 9'-10': Red brown lean CLAY with sand; moist; no odors		
			0.0ppm	@ 10'-11.5': Red brown lean CLAY with sand; moist, no odors		
				Groundwater @ 11.5' bgs		
	12-	SW	0.0ppm	@ 11.5'-12.5': Red brown well graded SAND; saturated; no odors		
	14-		0.0ppm	@ 12.5'-15': Red brown silty SAND; saturated; no odors		
	16-	--		End of boring		<b>Note:</b> Geoprobe direct push 5' macrocore
	18-					
	20-					

SOIL BORING/WELL NUMBER SB-4/MW-4  
 PROJECT PE022  
 LOCATION 505 West 27th Street, New York, NY  
 PROJECT NUMBER PE022  
 LOGGED BY Greg Wyka  
 DRILLER AARCO Environmental Services, Inc.  
 DATE August 2, 2012



Sample ID/Time/Depth	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
SB4_4 12:30 (2'-4')		Concrete		@ 0'-1' Concrete		<b>GENERAL</b> <u>Total Borehole Depth:</u> 15' <u>Borehole Diameter:</u> 8.25" OD x 4.25" ID HSA <u>Monument Type:</u> 8" flush mount well cover  <b>MONITORING WELL</b> <u>Screen:</u> 10' of 0.020 slot well screen (2" PVC) <u>Riser:</u> 5' of solid riser (2" PVC) <u>Filter Pack:</u> #2 Morie Sand extends 2' above well screen <u>Bentonite grout:</u> 2' above #2 sand <u>Concrete:</u> 0'-0.5'  <b>Note:</b> Geoprobe direct push 5' macrocore
		SP	0.0ppm	@ 1'-2' FILL: dark brown poorly graded SAND w/ concrete and brick fragments; little ash; little cinders; little coal fragments; little glass fragments; little slag; no odors		
	2-		16.4ppm	@ 2'-3' FILL: light gray poorly graded SAND w/ concrete and brick fragments; little scrap metal; little wood fragments; no odors		
	4-		1.2ppm	@ 3'-5' FILL: light gray poorly graded SAND w/ concrete and brick fragments; little scrap metal; little wood fragments; no odors		
	6-			@ 5'-7.5': No recovery		
	8-		0.0ppm	@ 7.5'-9' FILL: light gray poorly graded SAND w/ concrete fragments; no odors		
		Brick	0.0ppm	@ 9'-9.5': Crushed brick; no odors		
	10-	SW	0.0ppm	@ 9.5'-10': Red brown well graded SAND; moist; no odors		
SB4_13 12:45 (11'-13')			0.0ppm	@ 10'-11': No recovery Groundwater @ 11' bgs		
	12-			@ 11'-14': Red brown well graded SAND w/ gravel; saturated; no odors		
	14-		0.0ppm	@ 14'-15': Red brown well graded SAND; saturated; no odors		
		--		End of boring		
	16-					
	18-					
	20-					

SOIL BORING/WELL NUMBER SB-2/MW-2  
 PROJECT PE022  
 LOCATION 505 West 27th Street, New York, NY  
 PROJECT NUMBER PE022  
 LOGGED BY Greg Wyka  
 DRILLER AARCO Environmental Services, Inc.  
 DATE August 3, 2012





Sample ID/Time/Depth	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		@ 0'-2': Concrete		<b>GENERAL</b> <u>Total Borehole Depth:</u> 15' <u>Borehole Diameter:</u> 8.25" OD x 4.25" ID HSA <u>Monument Type:</u> 8" flush mount well cover  <b>MONITORING WELL</b> <u>Screen:</u> 10' of 0.020 slot well screen (2" PVC) <u>Riser:</u> 5' of solid riser (2" PVC) <u>Filter Pack:</u> #2 Morie Sand extends 2' above well screen <u>Bentonite grout:</u> 2' above #2 sand <u>Concrete:</u> 0'-0.5'  <b>Note:</b> Geoprobe direct push 5' macrocore
SB2_4 12:50 (2'-4')	2-	SP	0.0ppm	@ 2'-5' FILL: brown poorly graded SAND w/ micaceous rock fragments; little brick fragments; little rock boulders; little coal fragments; little concrete fragments; no odors		
	4-					
	6-			@ 5'-7': No recovery		
	8-		0.0ppm	@ 7'-8' FILL: micaceous rock fragments and brick fragments; no odors		
SB2_10 13:00 (8'-10')		SW	0.0ppm	Groundwater @ 8' bgs		
			0.0ppm	@ 8'-10': Brown well graded SAND w/ gravel; saturated; no odors		
	10-			@ 10'-11': No recovery		
			0.0ppm	@ 11'-13': Brown well graded SAND; saturated; no odors		
	12-					
	14-	SP/SM	0.0ppm	@ 13'-15': Red brown poorly graded SAND w/ silt and gravel; saturated; no odors		
		--		End of boring		
	16-					
	18-					
	20-					

SOIL BORING/WELL NUMBER SB-5  
 PROJECT PE022  
 LOCATION 505 West 27th Street, New York, NY  
 PROJECT NUMBER PE022  
 LOGGED BY Greg Wyka  
 DRILLER AARCO Environmental Services, Inc.  
 DATE August 2, 2012



Page 1 of 1

Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications	
SB5_8 14:20 (7'-8')			Concrete			No monitoring well installed.	
	2-						
	4-		SP	0.0ppm			@ 0'-4': Concrete
	6-						@ 4'-5.5': No recovery @ 5.5'-6' FILL: brown poorly graded SAND; little brick fragments; no odors @ 6'-7' FILL: micaceous rock fragments
				0.0ppm			@ 7'-8' FILL: brown poorly graded SAND w/ gravel; no odors @ 8'-9' FILL: micaceous rock fragments; refusal at 9' bgs
	8-						
		--	End of boring				
	10-						
	12-						
	14-						
	16-						
	18-						
	20-						

SOIL BORING/WELL NUMBER SB-1/MW-1  
 PROJECT PE022  
 LOCATION 505 West 27th Street, New York, NY  
 PROJECT NUMBER PE022  
 LOGGED BY Greg Wyka  
 DRILLER AARCO Environmental Services, Inc.  
 DATE August 3, 2012



Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Asphalt		@ 0'-0.5': Asphalt		<b>GENERAL</b> <u>Total Borehole Depth:</u> 15' <u>Borehole Diameter:</u> 8.25" OD x 4.25" ID HSA <u>Monument Type:</u> 8" flush mount well cover  <b>MONITORING WELL</b> <u>Screen:</u> 10' of 0.020 slot well screen (2" PVC) <u>Riser:</u> 5' of solid riser (2" PVC) <u>Filter Pack:</u> #2 Morie Sand extends 2' above well screen <u>Bentonite grout:</u> 2' above #2 sand <u>Concrete:</u> 0'-0.5'  <b>Note:</b> Geoprobe direct push 5' macrocore
		Concrete		@ 0.5'-1': Concrete		
	2-	SP	0.0ppm	@ 1'-2' FILL: brown poorly graded SAND w/ gravel; some brick fragments; little coal fragments; little ash; little concrete; no odors		
			0.0ppm	@ 2'-3': FILL: brown poorly graded SAND/gravel; little brick fragments; little cinders; little ash; little coal fragments; little coke; no odors		
	4-		0.0ppm	@ 3'-5' FILL: brown poorly graded sand w/ gravel; some brick fragments; little concrete fragments; no odors		
				@ 5'-7': No recovery		
	6-					
			0.5ppm	@ 7'-8.5' FILL: brown poorly graded SAND w/ gravel; little brick fragments; little concrete fragments; moist; no odors		
	8-					
SB1_10 09:15 (8.5'-10')			6.4ppm	@ 8.5'-10': Black poorly graded SAND w/ gravel; moist; slight odors; staining		
	10-			@ 10'-11.5': No recovery		
			3.4ppm	@ 11.5'-12.5': Black poorly graded SAND w/ gravel; moist; slight odors; staining		
	12-	▼		Groundwater @ 12.5' bgs		
SB1_13.5 09:30 (12.5'-13.5')			5.1ppm	@ 12.5'-13.5': Brown poorly graded SAND w/ gravel; saturated; slight odors; slight staining		
	14-	SW	1.7ppm	@ 13.5'-14': Brown well graded SAND w/ gravel; no odors; sheen		
		SP	0.7ppm	@ 14'-15': Red brown poorly graded SAND w/ gravel; saturated no odors		
		--		End of boring		
	16-					
	18-					
	20-					



## **APPENDIX II**

### **GROUNDWATER SAMPLING LOGS**

MONITORING WELL ID: MW-1

SITE: PE022 - 505 W 27th St

DATE: 8/10/2012

WEATHER: CLOUDY

WELL PERMIT #:

WELL DEPTH: 15.04

WELL DIAMETER: 24

SCREENED INTERVAL: 5-15

PUMP INTAKE DEPTH: 11.5'

DTW (PRIOR TO PUMP PLACEMENT)

DTW (AFTER PUMP PLACEMENT):

PID / FID READINGS (ppm): BACKGROUND: \_\_\_\_\_ BENEATH OUTER CAP: \_\_\_\_\_ BENEATH INNER CAP: \_\_\_\_\_

[illegible]**COMMENTS:**

SAMPLE TIME: 1005

**ANALYSIS:**

MONITORING WELL ID: YW-2

SITE: PE022 - 505 W 27th St

DATE: 8/10/2012

WEATHER: Cloudy

WELL PERMIT #:

WELL DEPTH: 15.02

WELL DIAMETER: 2"

SCREENED INTERVAL: 5-15

PUMP INTAKE DEPTH:

DTW (PRIOR TO PUMP PLACEMENT) 9.54 BTOC

DTW (AFTER PUMP PLACEMENT): 9.49 BTOC

PID / FID READINGS (ppm): BACKGROUND: \_\_\_\_\_ BENEATH OUTER CAP: \_\_\_\_\_ BENEATH INNER CAP: \_\_\_\_\_

[illegible]**COMMENTS:**

FIELD DUPLICATE TAKEN FROM THIS LOCATION

SAMPLE TIME: 1145

**ANALYSIS:**



MONITORING WELL ID: MW1-2

SITE: PE022 - 505 W 27th St

DATE: 8/12/2012

WEATHER: *RM*

WELL PERMIT #:

WELL DEPTH: 15.03

WELL DIAMETER: 24

SCREENED INTERVAL: 5-15

PUMP INTAKE DEPTH: 12'

DTW (PRIOR TO PUMP PLACEMENT) 6.91 BTOC

DTW (AFTER PUMP PLACEMENT): 10.89 BTOC

PID / FID READINGS (ppm): BACKGROUND: \_\_\_\_\_ BENEATH OUTER CAP: \_\_\_\_\_ BENEATH INNER CAP: \_\_\_\_\_

[illegible]**COMMENTS:**

SAMPLE TIME: 1400


**ANALYSIS:**

## **APPENDIX D**

---

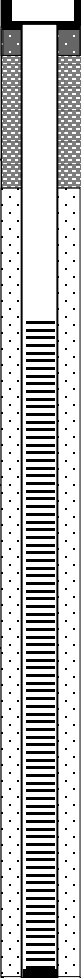
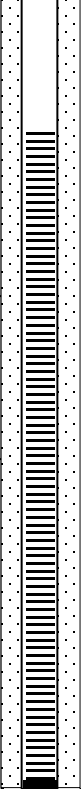
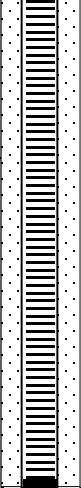
### **BORING LOGS & MONITORING WELL SAMPLING LOGS**




SOIL BORING/WELL NUMBER		SB-7/MW-5	
PROJECT		E040	
LOCATION		514-520 West 28th Street, New York, NY	
PROJECT NUMBER		E040	
LOGGED BY		J. L'Esperance	
DRILLER		AARCO Environmental Services, Inc.	
DATE		April 16, 2013	



61 Broadway, Suite 1601  
New York, NY 10006


Page 1 of 1

Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
SB-7_0-2 13:00 (0'-2')		SP	4.4	Coarse SAND with some organic matter, black, slight petroleum odor.		<b>GENERAL</b> <u>Total Borehole Depth:</u> 15'  <b>MONITORING WELL</b> <u>Screen:</u> 10' of 0.020" slotted PVC screen <u>Riser:</u> 4.5' of 2" diameter PVC riser <u>Description:</u> The annular space around the well will be filled with No. 2 Morie quartz sand to a depth of 2' above the top of the well screen, followed by 2' of bentonite, then backfilled with screened (uncontaminated) soil cuttings to approximately 6" below grade. The wells will be finished with 6" of bentonite pellets placed below a locking flush-mounted road box, set in a cement apron.
	2-					
		SP	0.0	Gray, coarsely graded SAND, no odors.  Concrete lens (3" thick) at 4' bgs.		
	4-					
	6-					
SB-7_7-9 13:25 (7'-9')	8-	ML	0.0	Sandy SILT with some brick and concrete fragments.		
		▼		Moisture at 9' bgs. Water table at 9.5' bgs.		
	10-		0.0	End of boring		
		--				
	12-					
	14-					
	16-					
18-						
20-						

SOIL BORING/WELL NUMBER		SB-8		<div><p>61 Broadway, Suite 1601 New York, NY 10006</p><p>Page 1 of 1</p></div>		
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 18, 2013				
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
SB-8_0-2 17:05 (0'-2')			SW	0.0		No monitoring well installed.
			0.0	Brown SAND with gravel, some brick.		
	2-					
	4-					
		0.0		Brown SAND with some silt and gravel.		
	6-					
SB-8_8-10 17:15 (8'-10')		0.0		Water table at 10' bgs.		
	8-					
	10-					
		--		End of boring		
	12-					
	14-					
	16-					
	18-					
	20-					







SOIL BORING/WELL NUMBER		SB-9		<div><div>integral</div><div>engineering p.c</div><div>61 Broadway, Suite 1601 New York, NY 10006</div><div>Page 1 of 1</div></div>		
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 18, 2013				
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete	0.0	Concrete		No monitoring well installed.
SB-9_1-3 16:10 (1'-3')	2-	SP	0.0	Coarsely graded brown SAND with brick, gravel.		
SB-9_3-5 16:20 (3'-5')	4-		5.8	At 4' bgs, slight odor, some dark staining, thickness of 4".		
			0.0			
	6-		0.0	No odors or staining below 4' bgs.		
	8-		0.0			
		▼	0.0	Water table at 9' bgs.		
10-		--		End of boring		
12-						
14-						
16-						
18-						
20-						



SOIL BORING/WELL NUMBER		SB-10		<div><p>61 Broadway, Suite 1601 New York, NY 10006</p><p>Page 1 of 1</p></div>				
PROJECT		E040						
LOCATION		514-520 West 28th Street, New York, NY						
PROJECT NUMBER		E040						
LOGGED BY		J. L'Esperance						
DRILLER		AARCO Environmental Services, Inc.						
DATE		April 18, 2013						
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications		
SB-10-0-2 15:10 (0'-2')		Concrete		Concrete.		No monitoring well installed.		
	2-	SP	0.0	Coarsely graded, brown SAND with gravel and brick.				
	0.0		Slight discoloration at 3' bgs, 4" thick, no odor.					
4-	0.0							
	0.0							
6-	0.0							
	0.0							
8-	0.0							
SB-10_8-10 15:20 (8'-10')				0.0				
	10-	▼	0.0	Water table at 10' bgs.				
		--		End of boring				
	12-							
	14-							
	16-							
	18-							
	20-							

SOIL BORING/WELL NUMBER		SB-11				
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 19, 2013				
<div><div>integral</div><div>engineering p.c.</div><div>61 Broadway, Suite 1601 New York, NY 10006</div></div>						
Page 1 of 1						
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete.		No monitoring well installed.
SB-11_1-3 11:40 (1'-3')	2-	SP	0.0	Coarsely graded SAND, black, petroleum odor.		
			21.3			
	4-		18.2			
		SP	0.0	Coarsely graded SAND, brown, no odor.		
	6-		0.0			
SB-11_7-9 11:50 (7'-9')	8-		0.0			
		▼		Water table at 9' bgs.		
			0.0			
	10-	--		End of boring		
	12-					
	14-					
	16-					
	18-					
	20-					

SOIL BORING/WELL NUMBER		SB-12				
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 18, 2013				
<div><div>integral</div><div>engineering p.c.</div><div>61 Broadway, Suite 1601 New York, NY 10006</div></div>						
Page 1 of 1						
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete (14" thick).		No monitoring well installed.
SB-12_1-3 15:40 (1'-3')	2-	SP	0.0	Coarsely graded, brown SAND with brick, gravel, concrete.		
	4-	Brick	0.0	Brick lens at 4'-4.5' bgs.		
	6-		0.0			
SB-12_7-9 15:40 (7'-9')	8-		0.0			
		▼	0.0	Water table at 9' bgs.		
	10-	--		End of boring		
	12-					
	14-					
	16-					
	18-					
	20-					

SOIL BORING/WELL NUMBER		SB-13				
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 18, 2013				
<div><div>integral</div><div>engineering p.c.</div><div>61 Broadway, Suite 1601 New York, NY 10006</div></div>						
Page 1 of 1						
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete.		No monitoring well installed.
SB-13_1-3 16:45 (1'-3')	2-	SP	19.4	Coarsely graded SAND, petroleum odor, black.		
		SP		Coarsely graded SAND with gravel.		
	4-		0.0			
	6-		0.0			
SB-13_7-9 16:50 (7'-9')	8-		0.0			
		▼	0.0	Water table at 9' bgs.		
			0.0			
	10-	--		End of boring		
	12-					
	14-					
	16-					
	18-					
	20-					

SOIL BORING/WELL NUMBER		SB-14		<div><p>61 Broadway, Suite 1601 New York, NY 10006</p><p>Page 1 of 1</p></div>			
PROJECT		E040					
LOCATION		514-520 West 28th Street, New York, NY					
PROJECT NUMBER		E040					
LOGGED BY		J. L'Esperance					
DRILLER		AARCO Environmental Services, Inc.					
DATE		April 16, 2013					
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications	
SB-14_0-2 15:00 (0'-2')			SP	0.0	Coarsely graded SAND with brick and concrete fragments.		No monitoring well installed.
	2-		4.4	Slight staining at 1.75' bgs, no odor.			
	4-		0.0				
			0.0				
SB-14_7-9 15:10 (7'-9')	6-		ML	0.0	Sandy SILT with gravel.		
			0.0				
	8-		0.0	Water table at 9' bgs.			
	10-		--		End of boring		
	12-						
	14-						
	16-						
	18-						
	20-						

SOIL BORING/WELL NUMBER		SB-15		<div><div>integral</div><div>engineering p.c</div><div>61 Broadway, Suite 1601 New York, NY 10006</div><div>Page 1 of 1</div></div>		
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 19, 2013				
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
SB-15_0-2 08:50 (0'-2')			SP	0.0		No monitoring well installed.
				0.0		
	2-					
	4-			0.0		
				0.0		
	6-			0.0		
				0.0		
SB-15_8-10 09:00 (8'-10')	8-		0.0	Water table at 10' bgs.		
			0.0			
	10-		0.0			
		--		End of boring		
	12-					
	14-					
	16-					
	18-					
	20-					


SOIL BORING/WELL NUMBER		SB-16		<div><div>integral</div><div>engineering p.c</div><div>61 Broadway, Suite 1601 New York, NY 10006</div><div>Page 1 of 1</div></div>		
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 19, 2013				
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete.		No monitoring well installed.
SB-16_1-3 09:30 (1'-3')	2-	SP	0.0	Coarsely graded, brown SAND with concrete, gravel.		
			0.0			
	4-		0.0			
			0.0			
	6-		0.0			
			0.0			
SB-16_7-9 SB-16_7-9_ Field DUP 09:40 (7'-9')	8-		0.0			
		▼	0.0	Water table at 9' bgs.		
	10-	--		End of boring		
	12-					
	14-					
	16-					
	18-					
	20-					



SOIL BORING/WELL NUMBER		SB-17				<div><div>integral</div><div>engineering p.c</div><div>61 Broadway, Suite 1601 New York, NY 10006</div></div> <div>Page 1 of 1</div>			
PROJECT		E040							
LOCATION		514-520 West 28th Street, New York, NY							
PROJECT NUMBER		E040							
LOGGED BY		J. L'Esperance							
DRILLER		AARCO Environmental Services, Inc.							
DATE		April 19, 2013							
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications			
		Concrete		Concrete.		No monitoring well installed.			
SB-17_1-3 11:10 (1'-3')	2-	SP	0.0	Coarsely graded, brown SAND with gravel and concrete.					
			0.0						
	4-			Brick lens at 4.5' bgs (2" thick).					
	0.0								
6-	0.0								
SB-17_7-9 11:20 (7'-9')	8-		0.0	Water table at 9' bgs.					
	10-	0.0	End of boring						
		--							
	12-								
	14-								
	16-								
	18-								
	20-								

SOIL BORING/WELL NUMBER		SB-17 (Refusal)				
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 19, 2013				
<div><div>integral</div><div>engineering p.c.</div><div>61 Broadway, Suite 1601 New York, NY 10006</div></div>						
Page 1 of 1						
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete.		No monitoring well installed.
	2-	SW	0.0	Uniform coarse SAND, yellow.		
	4-					
	6-					
		--		Refusal encountered at 6' bgs, end of boring.		
	8-					
	10-					
	12-					
	14-					
	16-					
18-						
20-						



















SOIL BORING/WELL NUMBER		SB-18	
PROJECT		E040	
LOCATION		514-520 West 28th Street, New York, NY	
PROJECT NUMBER		E040	
LOGGED BY		J. L'Esperance	
DRILLER		AARCO Environmental Services, Inc.	
DATE		April 18, 2013	







61 Broadway, Suite 1601  
New York, NY 10006


Page 1 of 1

Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete.		No monitoring well installed.
SB-18_1-3 16:45 (1'-3')	2-	SP	0.0	Coarsely graded SAND with gravel and brick fragments.		
			0.0			
	4-	Brick	0.0	Brick lens from 4.0' to 4.5' bgs.		
		SP				
	6-		0.0			
SB-18_7-9 16:50 (7'-9')			0.0			
	8-					
			0.0			
		▼	0.0	Water table at 9.5' bgs.		
	10-	--		End of boring		
	12-					
	14-					
	16-					
	18-					
	20-					

SOIL BORING/WELL NUMBER		SB-22		<div><p>61 Broadway, Suite 1601 New York, NY 10006</p><p>Page 1 of 1</p></div>			
PROJECT		E040					
LOCATION		514-520 West 28th Street, New York, NY					
PROJECT NUMBER		E040					
LOGGED BY		J. L'Esperance					
DRILLER		AARCO Environmental Services, Inc.					
DATE		April 16, 2013					
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications	
SB-22_0-2 14:30 (0'-2')			SP	0.0		No monitoring well installed.	
							Coarse SAND with some silt and brick fragments.  Organic lens at 1.5' bgs.
	2-			0.0			
			SP	0.0			
	4-			0.0			
			SP	0.0			
	6-			0.0			
			ML	0.0			
	8-			0.0			
SB-22_8-10 14:50 (8'-10')			ML	0.0			
			ML	0.0			
	10-		ML	0.0			
			--	End of boring			
	12-		--				
			--				
	14-		--				
			--				
	16-		--				
			--				
	18-		--				
			--				
	20-		--				

SOIL BORING/WELL NUMBER		SB-23				
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 19, 2013				
<div><div>integral</div><div>engineering p.c.</div><div>61 Broadway, Suite 1601 New York, NY 10006</div></div>						
Page 1 of 1						
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
SB-23_0-2 SB-23_0-2_MS/MSD 10:40 (0'-2')			SP	0.0	Coarsely graded, brown SAND with gravel, concrete, brick.	No monitoring well installed.
	2-		0.0			
	4-		0.0			
	6-	0.0				
SB-23_7-9 10:55 (7'-9')			ML	0.0	Sandy with silt.	
	8-					
				0.0	Water table at 9' bgs.	
10-			0.0			
			--		End of boring	
12-						
14-						
16-						
18-						
20-						

SOIL BORING/WELL NUMBER		SB-24	
PROJECT		E040	
LOCATION		514-520 West 28th Street, New York, NY	
PROJECT NUMBER		E040	
LOGGED BY		J. L'Esperance	
DRILLER		AARCO Environmental Services, Inc.	
DATE		April 19, 2013	




61 Broadway, Suite 1601  
New York, NY 10006

Page 1 of 1

Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete.		No monitoring well installed.
SB-24_1-3 10:10 (1'-3')	2-	SP	2.8	Coarse SAND with gravel, black, petroluem odor.		
	4-	SP	0.0	Coarsely graded SAND with gravel.		
			0.0			
		Brick		Brick lens from 5.0'-5.5' bgs.		
	6-	SP	0.0			
	8-		0.0			
SB-24_8-10 10:20 (8'-10')			0.0			
	10-	▼		Water table at 10' bgs.		
		--		End of boring		
	12-					
	14-					
	16-					
	18-					
		20-				






SOIL BORING/WELL NUMBER		SB-25	
PROJECT		E040	
LOCATION		514-520 West 28th Street, New York, NY	
PROJECT NUMBER		E040	
LOGGED BY		J. L'Esperance	
DRILLER		AARCO Environmental Services, Inc.	
DATE		April 18, 2013	



61 Broadway, Suite 1601  
New York, NY 10006

Page 1 of 1

Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete.		No monitoring well installed.
		Organic		Organic material, black, no odor.		
SB-25_1-3 09:20 (1'-3')	2-	SP	0.0	Coarse SAND with brick.		
			0.0			
	4-	Brick	0.0	Brick lens (2' thickness) at 5' bgs.		
	6-					
SB-25_7-9 SB-25_7-9_FIELD_DUP 09:30 (7'-9')	8-	SP	0.0	Water table at 9' bgs.		
		▼	0.0			
	10-	--		End of boring		
	12-					
	14-					
	16-					
18-						
20-						

SOIL BORING/WELL NUMBER		SB-26				
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 18, 2013				
<div><div>integral</div><div>engineering p.c.</div><div>61 Broadway, Suite 1601 New York, NY 10006</div></div>						
Page 1 of 1						
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
SB-26_0-2 17:25 (0'-2')			SP	0.0	Coarsely graded SAND with gravel, brick, and soft organic material.	No monitoring well installed.
	2-		0.0			
			Brick	0.0	Brick.	
	4-		0.0			
			ML	0.0	Sandy SILT, gravel.	
	6-		0.0			
SB-26_7-9 17:35 (7'-9')				0.0	Water table at 9' bgs.	
	8-		0.0			
			--	0.0	End of boring	
	10-					
	12-					
	14-					
	16-					
18-						
20-						



SOIL BORING/WELL NUMBER		SB-27				
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 18, 2013				
<div><div>integral</div><div>engineering p.c.</div><div>61 Broadway, Suite 1601 New York, NY 10006</div></div>						
Page 1 of 1						
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete.		No monitoring well installed.
SB-27_1-3 14:40 (1'-3')	2-	SP	0.0	Coarsely graded, brown SAND with some concrete, brick, gravel.		
	4-		0.0			
	6-		0.0			
SB-27_7-9 SB-16_7-9_ MS/MSD 14:50 (7'-9')	8-		0.0			
		▼	0.0	Water table at 9' bgs.		
	10-	--		End of boring		
	12-					
	14-					
	16-					
	18-					
	20-					

SOIL BORING/WELL NUMBER		SB-28				
PROJECT		E040				
LOCATION		514-520 West 28th Street, New York, NY				
PROJECT NUMBER		E040				
LOGGED BY		J. L'Esperance				
DRILLER		AARCO Environmental Services, Inc.				
DATE		April 18, 2013				
<div><div>integral</div><div>engineering p.c.</div><div>61 Broadway, Suite 1601 New York, NY 10006</div></div>						
Page 1 of 1						
Sample ID/Time/ (Depth)	Depth (Feet)	Strata	Max PID Reading	Description	WELL	Construction Specifications
		Concrete		Concrete.		No monitoring well installed.
		SP		Coarsely graded SAND with brick and gravel.		
SB-28_1-3 08:40 (1'-3')	2-					
	4-					
	6-					
SB-28_7-9 08:50 (7'-9')	8-	Brick		Brick lens at 7.5' bgs (6" thick).		
		SP		Water table at 9' bgs.		
		▼				
	10-					
		--		End of boring		
	12-					
	14-					
	16-					
	18-					
	20-					

MONITORING WELL ID: MW-2SITE: E040 - 505 W 27th StDATE: 4/23/2013

WEATHER: \_\_\_\_\_

WELL PERMIT #: \_\_\_\_\_

WELL DEPTH: 14.92WELL DIAMETER: 2"SCREENED INTERVAL: 10'PUMP INTAKE DEPTH: 12'DTW (PRIOR TO PUMP PLACEMENT) 9.91 BTOCDTW (AFTER PUMP PLACEMENT): 9.45 BTOC

TIME	PURGING	SAMPLING	pH	SPECIFIC CONDUCTIVITY (mS/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN	TEMPERATURE (DEGREES C)	O. REDOX POTENTIAL (MV)	PUMPING RATE (mL/min)	DEPTH TO WATER (FT BTOC)
1100			5.79	2.19	965	5.82	13.10	155	100	9.62
1105			6.17	2.17	690	4.10	13.65	159	100	9.62
1110			6.47	2.20	562	3.48	14.25	163	100	9.62
1115			6.69	2.23	335	3.18	14.63	166	100	9.62
1120			6.78	2.24	271	2.52	14.42	164	100	9.62
1125			6.87	2.28	338	3.80	16.84	153	100	9.62
1130			6.91	2.20	367	4.00	15.08	156	100	9.62
1135			6.82	2.24	168	2.75	17.17	138	100	9.62
1140			6.98	2.29	102	2.65	19.80	127	100	9.62
1145			7.29	2.29	61	2.71	19.73	115	100	9.62
1150			7.15	<del>2.29</del> 2.29	31	2.61	19.51	113	100	9.62
1155			7.14	2.21	29	2.61	18.75	112	100	9.62
1200			7.13	2.22	30	2.59	17.91	113	100	9.62
1205		8	7.12	2.23	30	2.59	17.90	113	100	9.62

COMMENTS:

SAMPLE TIME: \_\_\_\_\_

ANALYSIS: 8260B, 8270C, 6010B/7470A, 8082, 8081A

## MONITORING WELL ID:

MW-3

SITE: E040 - 505 W 27th St

DATE: 4/23/2013

WEATHER:

WELL PERMIT #:

WELL DEPTH: 14.91

WELL DIAMETER: 2"

SCREENED INTERVAL: 10'

PUMP INTAKE DEPTH: 12'

DTW (PRIOR TO PUMP PLACEMENT) 10.21 BTOC

DTW (AFTER PUMP PLACEMENT): 9.61 BTOC

TIME	PURGING	SAMPLING	pH	SPECIFIC CONDUCTIVITY (mS/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN	TEMPERATURE (DEGREES C)	O. REDOX POTENTIAL (MV)	PUMPING RATE (mL/min)	DEPTH TO WATER (FT BTOC)
1430			6.15	1.69	160	8.14	17.34	159	100	9.85
1435			6.29	1.77	109	7.10	17.10	143	100	9.85
1440			6.31	1.94	52	6.84	16.91	147	100	9.85
1445			6.55	1.75	61	6.13	16.63	131	100	9.85
1450			6.74	1.81	27	5.95	16.71	124	100	9.85
1455			6.43	2.01	15	6.17	16.85	111	100	9.85
1500			6.85	2.22	10	4.44	16.43	108	100	9.85
1505			6.99	2.22	9.1	4.01	16.55	101	100	9.85
1510			7.05	2.20	8.8	3.86	16.08	94	100	9.85
1515			7.04	2.20	8.7	3.84	16.10	94	100	9.85
1520		X	7.06	2.20	8.7	3.84	16.11	94	100	9.85

COMMENTS:

SAMPLE TIME:

ANALYSIS: 8260B, 8270C, 6010B/7470A, 8082, 8081A

MW-4

DATE: 4/23/2013

WEATHER:

WELL PERMIT #:

WELL DEPTH: 14.5

WELL DIAMETER: 2"

SCREENED INTERVAL: 10'

PUMP INTAKE DEPTH: 12'

DTW (PRIOR TO PUMP PLACEMENT) 11.00 BTOC

DTW (AFTER PUMP PLACEMENT): 10.58 BTOC

COMMENTS:	
SAMPLE TIME: _____	ANALYSIS: 8260B, 8270C, 6010B/7470A, 8082, 8081A

**SAMPLE TIME:**

**ANALYSIS: 8260B, 8270C, 6010B/7470A, 8082, 8081A**



## **APPENDIX E**

---

### **FIELD SAMPLING PLAN (FSP)**

# **Appendix E**

## **Field Sampling Plan**

### **For the West 28<sup>th</sup> Street**

### **Remedial Investigation Work Plan**

For the Property Located at 514-520 W28th Street  
New York, NY 10001  
Block 699, Lots 43 and 44  
NYSDEC BCP No. C231082

Submitted to:

New York State Department of Environmental Conservation  
Division of Environmental Remediation  
Remedial Bureau B  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233-7016

Prepared for:

28<sup>th</sup> Highline Associates, LLC  
c/o The Related Companies  
60 Columbus Circle  
New York, NY 10023

Prepared by:



61 Broadway  
Suite 1601  
New York, NY 10006

**February 19, 2013**

*Affiliated with Integral Consulting Inc.*



## CONTENTS

<b>1</b>	<b>INTRODUCTION .....</b>	<b>1-1</b>
1.1	SITE LOCATION .....	1-1
1.2	SAMPLING OBJECTIVE .....	1-1
1.3	FIELD ACTIVITIES .....	1-1
1.3.1	Onsite Personnel, Roles, and Responsibilities.....	1-2
1.3.2	Field Logbook .....	1-2
1.3.3	Sample Collection and Analysis.....	1-3
1.3.4	Equipment Decontamination.....	1-7
1.3.5	Investigation Derived Waste .....	1-8
1.3.6	Field Instrument Calibration .....	1-8

Appendix A. Quality Assurance Project Plan

Appendix B. Health and Safety Plan

## **LIST OF FIGURES**

- Figure 1.      Site Location Map  
Figure 2.      Sampling Location Plan

# **1 INTRODUCTION**

The following Field Sampling Plan (FSP) describes in detail the sampling and data gathering methods and procedures to be used during the remedial activities at the West 28<sup>th</sup> Street property (Site), outlined in the Remedial Investigation Work Plan (Revised January 14, 2013).

This FSP should be used in conjunction with the Quality Assurance Project Plan (QAPP) (Attachment A) and Health and Safety Plan (HASP) (Attachment B), both previously developed by Integral Engineering P.C. for the RI activities at the Site.

## **1.1 SITE LOCATION**

The Site is located in a commercial and residential area of the West Chelsea section of the Borough of Manhattan. The Site is comprised of an approximately 20,000-square foot P-shaped parcel located in the middle of the block and is bounded to the north by West 28<sup>th</sup> Street; to the east by 10<sup>th</sup> Avenue; to the south by West 27<sup>th</sup> Street and to the west by 11<sup>th</sup> Avenue. Adjacent properties include mixed use commercial and residential buildings to the south, west and east; manufacturing to the south; and the Highline Park (former elevated rail structure) to the east. The Site is identified on New York City tax maps as Block 699, Lots 43 and 44. A Site location map is provided as Figure 1.

## **1.2 SAMPLING OBJECTIVE**

The objective of the sampling is to define the nature and extent of contamination on the Site.

## **1.3 FIELD ACTIVITIES**

The Remedial Investigation (RI) will include the performance of concrete coring and the installation of twenty-four (24) soil borings, two (2) monitoring wells and eight (8) soil vapor points, within formerly identified recognized environmental conditions (RECs) and/or areas of concern (AOCs) and other areas of the Site that have not been previously investigated.

All sampling would be conducted consistent with the FSP, Quality Assurance Project Plan, and Health and Safety Plan.

### 1.3.1 Onsite Personnel, Roles, and Responsibilities

#### Personnel:

- Integral Project Manager: Alana Carroll (Office: 212-962-4301 Ext 306; Cell: 646-895-1403)
- Integral Field Staff: James L'Esperance (Office: 212-962-4301 Ext 308; Cell: 646-285-4808)

#### Roles and Responsibilities:

Integral Project Manager: Oversees the performance of field activities and directs deviations from the RI Work Plan (if necessary).

#### Integral Field Staff:

- Manages the implementation of the RI
- Oversees and direct subcontractors
- Collect samples for data analysis
- Control sample handling, packaging and shipment

### 1.3.2 Field Logbook

All field activities will be carefully documented in field logbooks. Entries will be of sufficient detail that a complete daily record of significant events, observations, and measurements is obtained. The field books will provide a legal record of the activities conducted at the site.

Accordingly:

- Field books will be bound with consecutively numbered pages;
- Field books will be controlled by the field staff while field work is in progress;
- Logbooks will be waterproof;
- Entries will be signed and dated at the conclusion of each day of field work;
- Erroneous entries made while fieldwork is in progress will be corrected by the person that made the entries. Corrections will be made by drawing a line through the error, entering the correct information, and initialing the correction;
- Corrections made after departing the field will be made by the person who made the original entries. The correction will be made by drawing a line through the error, entering the correct information, and initialing and dating the time of the correction; and
- The Integral Project Manager will control field books when fieldwork is not in progress.

At a minimum, daily field book entries will include the following information:

- Date and page number on each page or set of pages;

- Location of field activity;
- Date and time of entry;
- Names and titles of field team members;
- Names and titles of any site visitors and site contacts;
- Weather information: temperature, cloud coverage, wind speed and direction;
- Purpose of field activity;
- A detailed description of the fieldwork conducted, observations and any measurements or readings. Where appropriate, a hand-drawn sketch map will also be included that identifies significant landmarks, features, sample locations, and utilities; and
- When appropriate, boring numbers, well numbers, sample point ID or key activities should be identified on the top of each page to facilitate retrieval of data at a later date.

### **1.3.3 Sample Collection and Analysis**

#### **1.3.3.1 Concrete Coring**

Due to the presence of a non-uniform and uneven concrete surface covering a majority of the Site that ranges in thickness from 12 to 48 inches, all proposed sampling locations will be pre-drilled using a concrete corer.

Samples of the concrete will be collected and analyzed for PCBs via USEPA Method 8082. Concrete sample analysis will be used to provide initial information related to potential offsite disposal of this material. The specific core sections that will be submitted for analysis will be determined in the field and may include surface sections as well as deeper intervals within the concrete. It is initially proposed that a total of six (6) samples will be collected for analysis.

#### **1.3.3.2 Soil Sampling**

In order to further characterize the soil at the Site, the following scope of work will be implemented:

- Advance an estimated twenty-four (24) soil borings at the Site to further evaluate the historic fill above the water table including; the area adjacent to the USTs, various locations throughout the Site to evaluate source or hot spot conditions to assist in the evaluation and comparison of groundwater and soil gas data for remedial alternatives, and provide preliminary characterization for soil disposal evaluation;

- Evaluate physical characteristics of the entire soil/fill column in each boring and identify appropriate intervals from which samples will be collected;
- Analyze soil/fill samples for:
  - VOCs via United States Environmental Protection Agency (USEPA) Method 5035/5035A;
  - SVOCs via USEPA Method 8270C;
  - Target Analyte List (TAL) Metals via USEPA Method 6010B/7470A;
  - Cyanide via EPA Method 9013;
  - Hexavalent Chromium via EPA Method 3060A;
  - Polychlorinated Biphenyls (PCBs) via USEPA Method 8082; and
  - Pesticides via USEPA 8081A.

Toxicity Characteristic Leaching Procedure (TCLP) for metals analysis may be conducted, dependent upon the results of the TAL Metals analysis, on a per sample basis. TCLP are not generally performed for preliminary characterization due to the lack of information on a future excavation plan.

Soil boring will be advanced subsequent to the performance of concrete coring at each location. The concrete surface varies in thickness over the Site, grade is considered to begin at the underlying soil surface beneath the concrete. It is expected that two (2) soil samples will be collected from each completed boring. As a default, one (1) sample will be collected from the shallow zone (0-2 ftbg) and one (1) sample will be collected directly above the groundwater interface (8-10 ftbg). However, in the event the soil or fill material at a different interval above the water table exhibits obvious signs of impacts, one (1) sample will be collected from the area of highest suspected contamination. In the event additional impacted or questionable zones are identified, samples will be collected from those areas for analysis. All samples are expected to be collected from two (2) foot intervals but the intervals may be expanded or contracted based upon material collected and identification of impacts. All proposed soil boring locations are shown on Figure 2.

Impact will be determined in the field by a qualified environmental professional via screening for VOCs using a photoionization detector (PID) and visual/olfactory indication.

Soil borings will be installed using a track mounted Geoprobe® utilizing direct push technology to the groundwater interface depth, approximately 8 to 10 ftbg. Continuous soil samples will be collected using five (5) foot macrocore samplers fitted with dedicated acetate liners. The soil/fill retrieved from each sampler will be field screened with a PID for VOCs and described by Integral field personnel on boring logs. Evidence of contamination (e.g., Non Aqueous Phase Liquid [NAPL], sheens, odors, staining,

elevated PID readings) will be documented by Integral field personnel. Complete separate phase product samples, if encountered, will be submitted for gas chromatography-mass spectrometer fingerprint analysis.

Soil samples selected for laboratory analysis will be placed in laboratory supplied containers, sealed and labeled, and placed in a cooler and chilled to 4°C for transport under chain-of-custody procedures. Soil samples will be submitted to a NYSDOH ELAP-certified laboratory via courier service under standard chain-of-custody protocol and analyzed for all of the compounds included in NYCRR Part 375 SCOs and Final CP-51 SCLs. Laboratory analytical parameters and methods are outlined above, in Section 3.4. QA/QC procedures to be followed are described in the QAPP included as Attachment A.

#### **1.3.3.3 Groundwater Sampling**

The following scope of work is proposed to further characterize the groundwater at the Site:

- Install two additional (2) groundwater monitoring wells screened across the groundwater interface;
- Survey the four (4) existing and two (2) proposed wells;
- Collect one (1) round of depth-to-groundwater measurements from existing and newly-installed wells;
- Purge all wells in accordance with DER-10 requirements and collect samples for lab analysis. All purging and sampling will be performed in accordance with proper program protocols. Samples will be collected from each of the six (6) wells; and
- Analyze groundwater samples for:
  - VOCs via USEPA Method 8260B;
  - SVOCs via USEPA Method 8270C;
  - TAL Metals via USEPA Method 6010B/7470A (filtered and unfiltered);
  - PCBs via USEPA Method 8082 (only new wells); and
  - Pesticides via USEPA 8081A (only new wells).

All well locations will be installed concurrent with a soil boring location. Proposed well locations are shown on Figure 2.

Monitoring well construction will be similar to MW-1 through MW-4 and will follow the protocol described below. Monitoring wells will be installed using a track mounted

Geoprobe, outfitted with 4¼" hollow-stem auger attachments. Wells will be installed approximately 5' below the groundwater table (expected to be approximately 8-10 ftbg) in order to collect samples in the shallow saturated zone. The wells will be constructed of 2" diameter PVC riser with 10' of .020" slotted PVC screen. The wells are designed for the screen interval to straddle the groundwater interface. The annular space around the well will be filled with No. 2 Morie quartz sand to a depth of 2' above the top of the well screen, followed by 2' of bentonite, then backfilled with screened (uncontaminated) soil cuttings to approximately 6" below grade. The wells will be finished with 6" of bentonite pellets placed below a locking flush-mounted road box, set in a cement apron. Monitoring wells will be developed right after they are installed.

Sampling of the monitoring wells is anticipated to take place approximately one week following their installation. Following purging, one (1) representative groundwater sample will be collected from each well, using dedicated polyethylene tubing attached to a peristaltic pump capable of low flow control. Water quality indicators (pH, temperature, specific conductivity, and turbidity) will be monitored periodically while purging. Groundwater samples will be collected according to EPA's *Low Flow Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells* (Low Flow Procedures, January 2010).

The groundwater samples will be pumped directly into laboratory-supplied sample bottles. Samples will be collected, cooled, properly packaged to prevent breakage, and submitted to a NYSDOH ELAP-certified laboratory via courier service under standard chain-of-custody protocol. Laboratory analytical parameters and methods are outlined above, in Section 3.5. QA/QC procedures to be followed are described in the QAPP included as Attachment A.

#### **1.3.3.4 Soil Vapor Sampling**

The scope of work proposed for the characterization of soil vapor onsite, focuses on the potential for offsite migration as well as the potential for onsite migration of contaminants from offsite sources. The results of which will assist in evaluating future onsite engineering controls.

The following scope of work is proposed to further characterize the soil vapor at the Site:

- Install eight (8) soil vapor points;
- Purge and collect soil vapor samples from eight (8) points;
- Collect one (1) ambient air sample;
- Analyze all soil vapor and ambient air samples for TO-15 VOCs.



All sample locations will be installed concurrent with a soil boring location. Proposed soil vapor sampling locations are shown on Figure 2. All soil vapor samples will be collected at least 24 hours after the installation of the points.

Each soil vapor probe will be installed using dedicated 1/8" Teflon tubing. The tubing will be implanted into the hole and the annular space sealed with bentonite to prevent ambient air from entering the area around the probe. Once the seal is secure, a "T" fitting and valve will be connected on the above-surface end of the tubing. A syringe will be used to purge the vapors in the probe and tubing of three volumes. As required by the NYSDOH, a helium (He) tracer will be used as part of the sampling process and all testing will follow the NYSDOH Soil Vapor Guidance<sup>1</sup>. Prior to sample collection, the He vapor will be screened using a field meter and the measurement recorded at each soil vapor sampling location (NYSDOH allows for 10% as a measure to determine a competent seal). Prior to sample collection, a multi-gas meter will be used to measure the concentration of O<sub>2</sub>, CO<sub>2</sub>, and CH<sub>4</sub> in each probe, to assess the persistence of hydrocarbon vapors. Following this procedure, the soil vapor samples will be collected in clean, batch certified, two (2) liter Summa™ canisters at flow rates no greater than 200 ml/min.

Soil vapor samples will be collected over a period of two (2) hours. Soil vapor samples will be analyzed for VOCs via USEPA Method TO-15 at a NYSDOH ELAP-certified analytical laboratory.

#### Ambient Air Sample

Background (ambient) air commonly contains VOCs at measurable but low concentrations, and can contribute a positive bias to soil vapor samples. To characterize such "background" concentrations, an ambient working conditions air sample will be collected along with the soil vapor samples. The ambient air sample will be collected using a clean, batch certified Summa™ canister over an 8-hour period. The Summa™ canister will be placed at a height of 5-7 feet above grade to simulate breathing zone elevation.

### **1.3.4 Equipment Decontamination**

Where possible, samples will be collected using new, dedicated sampling equipment so that decontamination is not required. All non-dedicated drilling tools, equipment and sampling equipment will be decontaminated between boring locations using potable tap water and a phosphate-free detergent (e.g., Alconox) and/or a steam cleaner. All non-dedicated sampling

---

<sup>1</sup> *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Final*. October 2006.

equipment will also have a final rinse with deionized water. Decontamination water will be collected and disposed as investigation-derived waste (IDW).

### **1.3.5 Investigation Derived Waste**

It is anticipated that soil cuttings and groundwater will be generated during Site characterization activities. The cuttings from drilling operations will be placed on the ground and covered with poly tarps unless NAPL is identified. In which case this material will be segregated and stored adjacent to other material. Following completion of the entire investigation, the method for proper disposal will be presented. Groundwater will be disposed of in a controlled manner within an area that is unpaved. In addition, wastes, such as used personal protective equipment (PPE), will be generated during sampling and drilling activities. Used PPE and other non-hazardous materials will be disposed of in municipal trash dumpster's onsite.

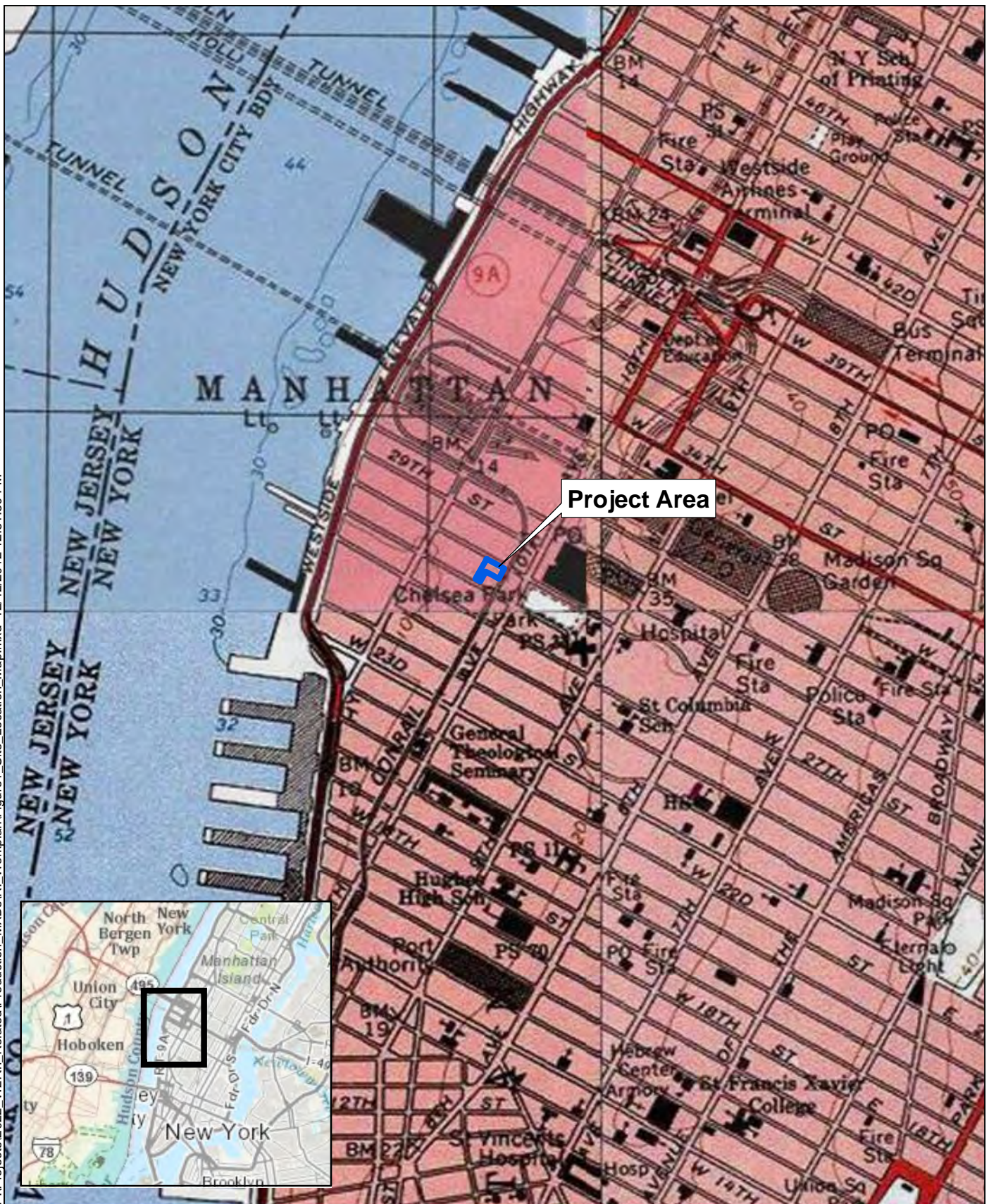
### **1.3.6 Field Instrument Calibration**

All field screening and sampling instruments (e.g., temperature-conductivity-pH probes) that require calibration prior to operation will be calibrated daily in accordance with the manufacturer's instructions. All instrument calibrations will be documented in the project field book and in instrument calibration logs for the various pieces of equipment. Instrument operating manuals will be maintained on-site by the field team.

## FIGURES

---

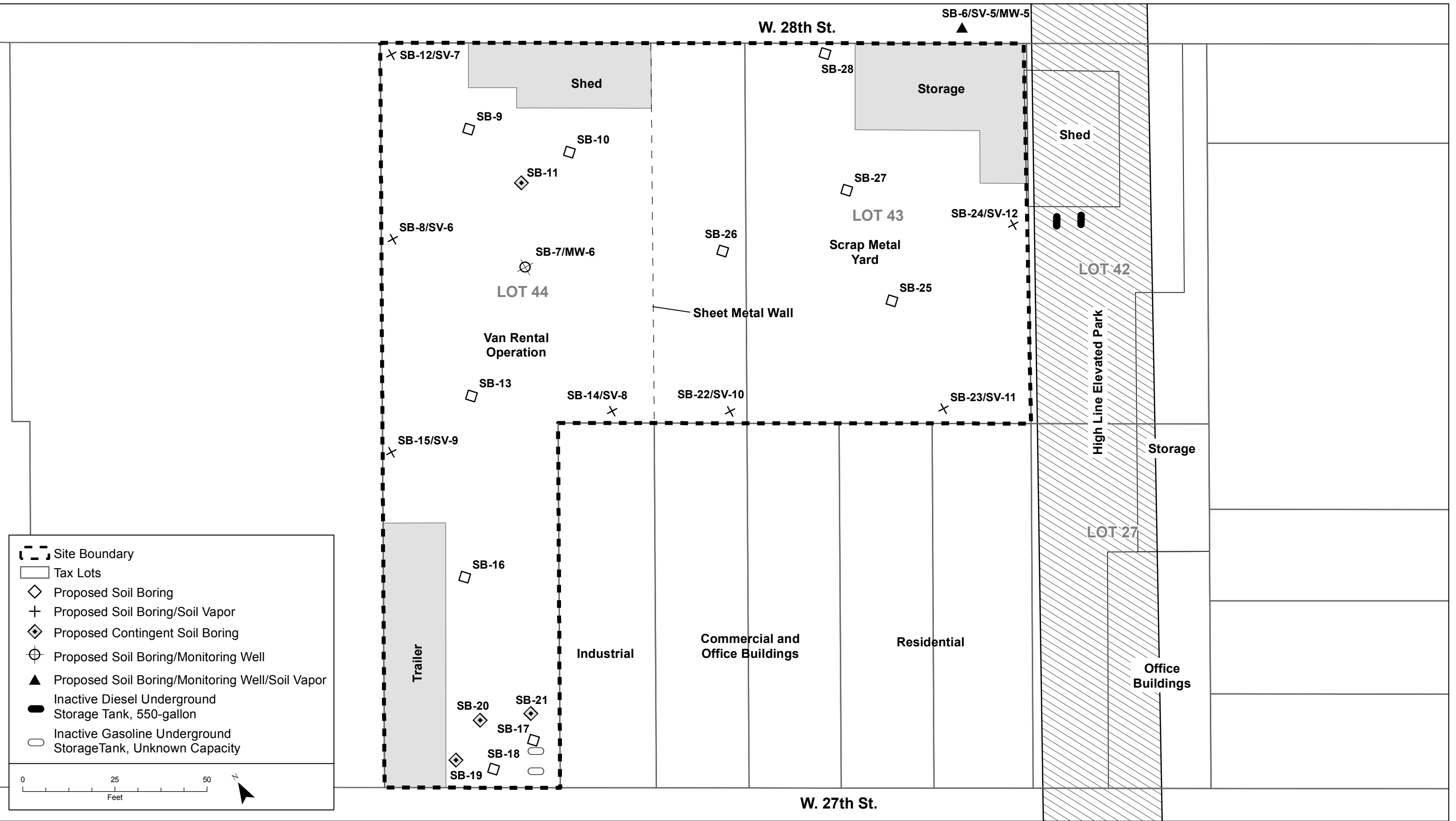




**Figure 1.**  
Site Location Map  
505 West 27th Street, New York, NY



P:\Projects\1022\_W27th\_Related\Production\_MXD\RL\_Workplan\Figure9\_Proposed\_Sampling\_Locs.mxd 12/20/2012 4:45:21 PM



## **APPENDIX A - QAPP**

---

SEE APPENDIX F OF THE RIR

## **APPENDIX B - HASP**

---

SEE APPENDIX G OF THE RIR

## **APPENDIX F**

---

### **QUALITY ASSURANCE PROJECT PLAN (QAPP)**



# **Appendix F**

## **Quality Assurance Project Plan**

### **For the West 28<sup>th</sup> Street**

## **Remedial Investigation Work Plan**

For the Property Located at 514-520 W28th Street  
New York, NY 10001  
Block 699, Lots 43 and 44  
NYSDEC BCP No. C231082

Submitted to:

New York State Department of Environmental Conservation  
Division of Environmental Remediation  
Remedial Bureau B  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233-7016

Prepared for:

28<sup>th</sup> Highline Associates, LLC  
c/o The Related Companies  
60 Columbus Circle  
New York, NY 10023

Prepared by:



61 Broadway  
Suite 1601  
New York, NY 10006

**February 19, 2013**

*Affiliated with Integral Consulting Inc.*

## CONTENTS

<b>1</b>	<b>INTRODUCTION .....</b>	<b>1-1</b>
1.1	PROJECT SCOPE AND QAPP OBJECTIVE.....	1-1
<b>2</b>	<b>PROJECT ORGANIZATION.....</b>	<b>2-2</b>
<b>3</b>	<b>SAMPLING AND DECONTAMINATION PROCEDURES.....</b>	<b>3-4</b>
3.1	LEVEL OF EFFORT FOR QC SAMPLES .....	3-4
3.2	SAMPLE HANDLING.....	3-4
3.3	CUSTODY PROCEDURES.....	3-5
3.4	SAMPLE STORAGE.....	3-5
3.5	SAMPLE CUSTODY .....	3-5
3.6	SAMPLE TRACKING .....	3-6
3.7	SOIL SAMPLING .....	3-6
3.8	MONITORING WELL INSTALLATION AND DEVELOPMENT .....	3-7
3.9	GROUNDWATER SAMPLING .....	3-8
3.10	SOIL VAPOR AND AMBIENT AIR SAMPLING.....	3-8
3.11	ANALYTICAL METHODS/QUALITY ASSURANCE SUMMARY TABLE.....	3-9
3.12	DECONTAMINATION.....	3-1
3.13	DATA REVIEW AND REPORTING .....	3-1

Appendix A. Resumes

# 1 INTRODUCTION

This Quality Assurance Project Plan (QAPP) has been developed for the Remedial Investigation Work Plan (RIWP) prepared for the West 28<sup>th</sup> Street property located in New York, NY.

The Site is located at 514-520 West 28<sup>th</sup> Street in the West Chelsea section of the Borough of Manhattan, New York. The Site is approximately 22,220 square feet (0.51 acre).

## 1.1 PROJECT SCOPE AND QAPP OBJECTIVE

The proposed scope of work includes the following:

- Advancement of borings for soil, groundwater and/or soil vapor sampling at several locations around the site; and,
- Collection of soil, groundwater, soil vapor and ambient air samples from soil borings, monitoring wells and temporary soil vapor points.

The objective of the QAPP is to detail the policies, organization, objectives, functional activities and specific quality assurance/quality control (QA/QC) activities designed to achieve the data quality goals or objectives of the RIWP. This QAPP addresses how the acquisition and handling of samples and the review and reporting of data will be documented for quality control (QC) purposes. Specifically, this QAPP address the following:

- The procedures to be used to collect, preserve, package, and transport samples;
- Field data collection and record keeping;
- Data management;
- Chain-of-custody procedures; and,
- Determination of precision, accuracy, completeness, representativeness, decision rules, comparability and level of QC effort.

## 2 PROJECT ORGANIZATION

The personnel detailed are responsible for the implementation of the QAPP. Integral Engineering LLC (Integral) will implement the RIWP on behalf of 28<sup>th</sup> and 10<sup>th</sup> Associates, LLC (Volunteer) once approved by the New York State Department of Environmental Conservation (NYSDEC).

The Qualified Environmental Professional will be Kevin McCarty, P.G., principal at Integral. Mr. McCarty is a professional geologist with nearly 20 years of experience in the New York City metropolitan area. He has designed and implemented subsurface investigations and is proficient in interpreting groundwater modeling, design of groundwater treatment systems, and soil remediation. He has managed numerous projects focused on compliance with the requirements of the New York State Brownfield Cleanup and spills programs and the New York City “e” designation program. Mr. McCarty also has extensive experience coordinating with New York State and New York City regulatory agencies. Mr. McCarty received his BA in Geology from Western Connecticut State University.

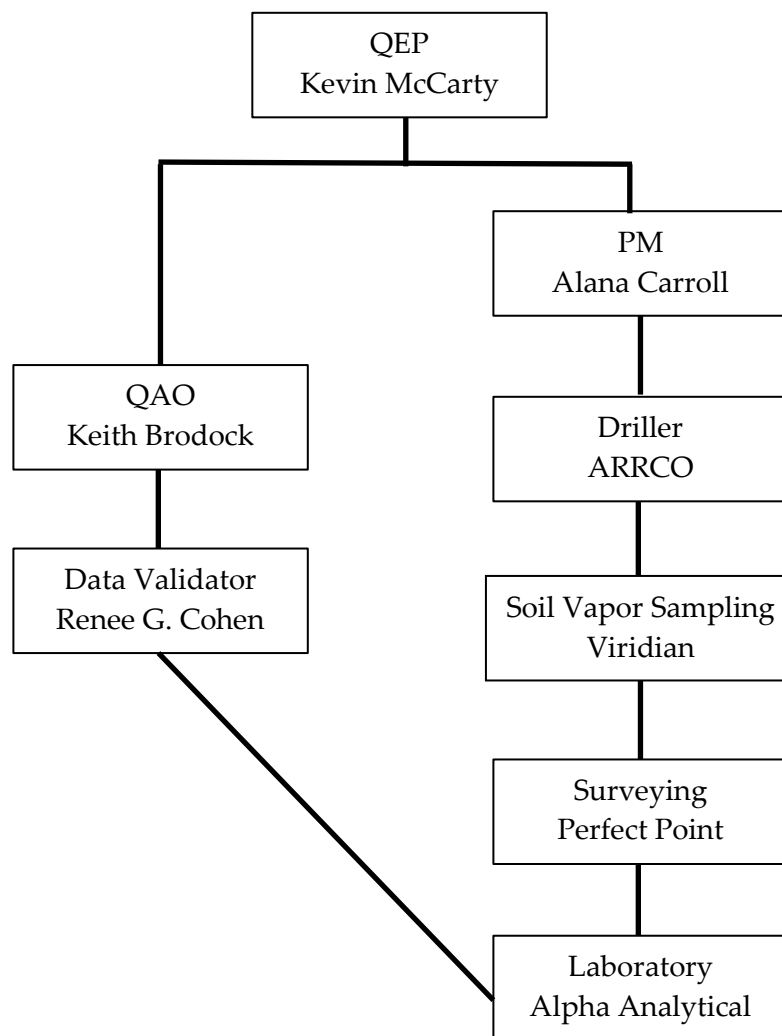
The Quality Assurance Officer will be Mr. Keith Brodock, P.E., managing engineer at Integral. Mr. Brodock is an is a professional engineer with nearly 10 years of experience in environmental risk analysis, real estate portfolio liability estimation, transactional risk evaluation, remediation design, and decision management science. One of his primary responsibilities is managing and quantifying transactional risks for brownfield properties. Mr. Brodock routinely consults purchasers and sellers on the regulatory climate, technical interpretations, and risk mitigation measures. He frequently supports fate and transport modeling of vapor intrusion cases and engineering designs for remediation systems. Mr. Brodock received his BS in Chemical Engineering from Clarkson University. Mr. Brodock will review sampling procedures and certify that the data was collected and analyzed using the appropriate procedures and will not be directly involved in the collection and analysis of samples from the Site. Mr. Brodock has, in conjunction with the Project Manager, developed the sampling and analytical portion of this QAPP.

The Project Manager will be Mrs. Alana Carroll, senior geologist at Integral. Mrs. Carroll is an environmental geologist with experience in all aspects of site assessment, development and implementation of remedial strategies. Her experience involves projects from inception through investigation, remediation and closure. Her expertise includes soil, soil vapor and groundwater remediation; remedial selection and design; field/health and safety oversight and preparation of work plans and reports to satisfy the requirements of various regulatory agencies. Mrs. Carroll received her BS in Geology from Hofstra University.

Project personnel resumes are included in Appendix A.

In addition, Integral will utilize subcontractors for drilling (ARRCO Environmental of Lindenhurst, NY), concrete coring (Eastern Coring of Queens, NY), soil vapor sampling (Viridian Inc. of Upper Montclair, NJ), surveying (Perfect Point Land Surveying of Brooklyn, NY), laboratory services (Alpha Analytical of Mahwah, NJ) and data validation (Premier Environmental Services, Inc. of Merrick, NY).

An organization chart for the implementation of the Remedial Investigation Work Plan and QAPP is below.



### **3 SAMPLING AND DECONTAMINATION PROCEDURES**

A detailed description of the procedures to be used during this program for collection of the soil, soil vapor, ambient air and groundwater samples is provided below. Proposed sample locations are shown on Figure 9 of the Work Plan. An Analytical Methods/Quality Assurance Summary is provided in Table 1, included in Section 3.11.

#### **3.1 LEVEL OF EFFORT FOR QC SAMPLES**

Field blank, trip blank, field duplicate samples and matrix spike (MS) / matrix spike duplicate (MSD) will be analyzed to assess the quality of the data resulting from the field sampling and analytical programs. Each type of QC sample is discussed below.

- Field and trip blanks consisting of distilled water will be submitted to the analytical laboratories to provide the means to assess the quality of the data resulting from the field-sampling program. Field (equipment) blank samples are analyzed to check for procedural chemical constituents at the facility that may cause sample contamination. Trip blanks are used to assess the potential for contamination of samples due to contaminant migration during sample shipment and storage.
- Duplicate samples are analyzed to check for sampling and analytical reproducibility.
- MS/MSD samples provide information about the effect of the sample matrix on the digestion and measurement methodology

The general level of QC effort will be one (1) field duplicate and one (1) field blank (when non-dedicated equipment is used) for every 20 or fewer investigative samples of a given matrix. Additional sample volume will also be provided to the laboratory to allow one (1) site-specific MS/MSD for every 20 or fewer investigative samples of a given matrix. One (1) trip blank will be included along with each sample delivery group of VOC samples.

The analytical laboratory will be certified under the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP). NYSDEC Analytical Services Protocol (ASP) Category B deliverables will be prepared by the laboratory.

#### **3.2 SAMPLE HANDLING**

Samples will be picked up by the laboratory or delivered to the laboratory in person by the sampler, or transported to the laboratory by overnight courier. All samples will be shipped to the laboratory to arrive within 48 hours after collection, and the laboratory will adhere to the

analytical holding times for these analyses, as listed in the current version of the New York State ASP.

### **3.3 CUSTODY PROCEDURES**

Sample custody will be controlled and maintained through the chain-of-custody procedures. The chain of custody is the means by which the possession and handling of samples is tracked from the site to the laboratory. Sample containers will be cleaned and preserved at the laboratory before shipment to the Site. The following sections (Sections 3.4 and 3.5) describe procedures for maintaining sample custody from the time samples are collected to the time they are received by the analytical laboratory.

### **3.4 SAMPLE STORAGE**

Samples will be stored in secure limited-access areas. Walk-in coolers or refrigerators will be maintained at 4°C, 2°C, or as required by the applicable regulatory program. The temperatures of all refrigerated storage areas are monitored and recorded a minimum of once per day. Deviations of temperature from the applicable range require corrective action, including moving samples to another storage location, if necessary.

### **3.5 SAMPLE CUSTODY**

Sample custody is defined by this document as the following:

- The sample is in someone's actual possession;
- The sample is in someone's view after being in his or her physical possession;
- The sample was in someone's possession and then locked, sealed, or secured in a manner that prevents unsuspected tampering; or,
- The sample is placed in a designated and secured area.
- Samples will be removed from storage areas by the sample custodian or laboratory personnel and transported to secure laboratory areas for analysis. Access to the laboratory and sample storage areas is restricted to laboratory personnel and escorted visitors only; all areas of the laboratory are therefore considered secure.

Laboratory documentation used to establish chain of custody and sample identification may include the following:

- Field chains of custody or other paperwork that arrives with the sample;
- Laboratory chain of custody;

- Sample labels or tags attached to each sample container;
- Sample custody seals;
- Sample preparation logs (i.e., extraction and digestion information) recorded in hardbound laboratory books, filled out in legible handwriting, and signed and dated by the chemist;
- Sample analysis logs (e.g., metals, GC/MS, etc.) information recorded in hardbound laboratory books that are filled out in legible handwriting, and signed and dated by the chemist;
- Sample storage log (same as the laboratory chain of custody); and,
- Sample disposition log, which documents sample disposal by a contracted waste disposal company.

### **3.6 SAMPLE TRACKING**

All samples will be maintained in the appropriate coolers prior to and after analysis. Laboratory analysts will remove and return their samples, as needed. Samples that require internal chain of custody procedures will be relinquished to the analysts by the sample custodians. The analyst and sample custodian will sign the original chain of custody relinquishing custody of the samples from the sample custodian to the analyst. When the samples are returned, the analyst will sign the original chain of custody returning sample custody to the sample custodian. Sample extracts will be relinquished to the instrumentation analysts by the preparatory analysts. Each preparation department will track internal chain of custody through their logbooks/spreadsheets.

Any change in the sample during the time of custody will be noted on the chain of custody (e.g., sample breakage or depletion).

### **3.7 SOIL SAMPLING**

Soil samples will be collected from acetate liners through macrocores using a Geoprobe. Samples will be collected from grade to approximately twelve (12) feet below grade (ftbg). Borings will be terminated at twelve (12) ftbg which is approximately two (2) feet into the groundwater table.

New, dedicated disposable acetate sleeves will be used for all soil samples collected using the Geoprobe. The sleeve for each sample interval will be opened and the soil within scanned for volatile organic compounds (VOCs) using a photoionization detector (PID) and geologically described using the Unified Soil Classification System, including documentation of observations



regarding potential contamination such as odors, staining, etc. All descriptions and observations will be documented in a field notebook.

A minimum of two (2) soil samples will be collected from each completed boring. As a default, one (1) sample will be collected from the near surface zone (0-2 ftbg) and one (1) sample will be collected directly above the groundwater interface (8-10 ftbg). However, in the event the soil or fill material at a different interval above the water table exhibits obvious signs of impacts, one (1) sample will be collected from the area of highest suspected contamination. In the event additional impacted or questionable zones are identified, samples will be collected from those areas for analysis. All samples are expected to be collected from two (2) foot intervals but the intervals may be expanded or contracted based upon material collected and identification of impacts. One (1) shallow soil sample will be collected regardless of the presence of impacts. Soil samples to be analyzed will be collected directly from the acetate sleeve in discrete two (2) foot intervals. VOC soil samples will be placed in laboratory provided En Core samplers (En Novative Technologies, Inc.). All other soil samples will be placed in laboratory supplied glass containers. All samples will be sealed, labeled, cooled to 4°C in the field, and transported under chain-of-custody command to the designated laboratory for analysis. Product samples, if encountered, will be submitted for gas chromatography-mass spectrometer fingerprint analysis.

Soil samples will be analyzed for VOCs via United States Environmental Protection Agency (USEPA) Method 5035/5035A; semi-volatile organic compounds (SVOCs) via USEPA Method 8270C; Target Analyte List (TAL) Metals via USEPA Method 6010B/7470A; Cyanide via EPA Method 9013; Hexavalent Chromium via EPA Method 3060A; Polychlorinated Biphenyls (PCBs) via USEPA Method 8082; and Pesticides via USEPA 8081A. The samples will be submitted for laboratory analysis with a NYSDEC ASP Category B data package.

### **3.8 MONITORING WELL INSTALLATION AND DEVELOPMENT**

Groundwater samples will be collected from permanent monitoring wells. Newly installed monitoring wells will be installed using a track mounted Geoprobe, outfitted with 4¼" hollow-stem auger attachments. Wells will be installed approximately 5' below the groundwater table (expected to be approximately 8-10 ftbg) in order to collect samples in the shallow saturated zone. The wells will be constructed of 2" diameter PVC riser with 10' of .020" slotted PVC screen. The wells are designed to allow the screen interval to straddle the groundwater interface. The annular space around the well will be filled with No. 2 Morie quartz sand to a depth of 2' above the top of the well screen, followed by 2' of bentonite, then backfilled with screened (uncontaminated) soil cuttings to approximately 6" below grade. The wells will be finished with 6" of bentonite pellets placed below a locking flush-mounted road box, set in a cement apron. Monitoring wells will be developed soon after they are installed. All wells will be surveyed to a common Site datum.

### 3.9 GROUNDWATER SAMPLING

Prior to sample collection, static water levels will be measured and recorded from all on-site monitoring wells. Following water level measurement, Integral will purge and sample monitoring wells using low-flow/minimal drawdown purge and sample collection procedures. Prior to sample collection, groundwater will be evacuated from each well at a low-flow rate (typically less than 0.1 L/min). Field measurements for pH, temperature, turbidity, dissolved oxygen, specific conductance, oxidation-reduction potential and water level, as well as visual and olfactory field observations, will be periodically recorded and monitored for stabilization. Purging will be considered complete when pH, specific conductivity, dissolved oxygen and temperature stabilize and when turbidity measurements fall below 50 Nephelometric Turbidity Units (NTU), or become stable above 50 NTU. If stabilization does not occur or the well has been purged and recovery cannot maintain the pace of low flow purging, a sample will be collected and a notation will be made in the field book.

Stability is defined as variation between field measurements of 10 percent or less and no overall upward or downward trend in the measurements. Upon stabilization of field parameters, groundwater samples will be collected and analyzed as discussed below.

Wells will be purged and sampled using dedicated pump tubing following low-flow/minimal drawdown purge and sample collection procedures, as described above. The pump will be decontaminated between samples and the tubing will be replaced.

Groundwater samples will be collected for laboratory analysis through dedicated tubing. Prior to, and immediately following collection of groundwater samples, field measurements for pH, specific conductance, temperature, dissolved oxygen, turbidity and depth-to-water, as well as visual and olfactory field observations will be recorded. All collected groundwater samples will be placed in pre-cleaned, pre-preserved laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to the designated laboratory for analysis.

Groundwater samples will be analyzed for VOCs via USEPA Method 8260B; SVOCs via USEPA Method 8270C; TAL Metals via USEPA Method 6010B/7470A (filtered and unfiltered); PCBs via USEPA Method 8082 (only new wells); and Pesticides via USEPA 8081A (only new wells). The samples will be submitted for laboratory analysis with a NYSDEC ASP Category B data package.

### 3.10 SOIL VAPOR AND AMBIENT AIR SAMPLING

Soil vapor samples will be collected in accordance with the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006. Samples will be collected using disposable points at a depth of approximately five (5) ftbg. Each soil vapor probe will be installed using dedicated 1/8" Teflon tubing. The tubing will be implanted into the hole and the

annular space sealed with bentonite to prevent ambient air from entering the area around the probe. Once the seal is secure, a "T" fitting and valve will be connected on the above-surface end of the tubing. A syringe will be used to purge the vapors in the probe and tubing of three volumes. As required by the NYSDOH, a helium (He) tracer will be used as part of the sampling process and all testing will follow the NYSDOH Soil Vapor Guidance<sup>1</sup>. Prior to sample collection, the He vapor will be screened using a field meter and the measurement recorded at each soil vapor sampling location (NYSDOH allows for 10% as a measure to determine a competent seal). Prior to sample collection, a multi-gas meter will be used to measure the concentration of O<sub>2</sub>, CO<sub>2</sub>, and CH<sub>4</sub> in each probe, to assess the persistence of hydrocarbon vapors.

A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone and chain of custody

A weather station will be present on-site to record starting, ending, highest and lowest temperature and barometric pressure.

Soil vapor samples will be collected in clean, batch certified, two (2) liter Summa™ canisters using two (2)-hour regulators. One (1) ambient air sample will be collected in a laboratory-supplied six (6)-liter canister using an eight (8)-hour regulator during soil vapor sample collection. All soil vapor and ambient air samples will be analyzed for VOCs using EPA Method TO-15.

### **3.11 ANALYTICAL METHODS/QUALITY ASSURANCE SUMMARY TABLE**

A summary of the analytical methods and quality assurance methods are included in Table 1, below.

---

<sup>1</sup> Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Final. October 2006.

Table 1  
Analytical Methods/Quality Assurance Summary

Matrix	Proposed Samples	QA/QC Samples				Total # Samples	Analytical Parameter	Method	Preservative	Holding Time	Container
		TB	FB	DUP	MS/MSD						
Soil	Unknown	0	0	0	0	--	Fingerprint	8100M	Cool to 4°C	14 days to perform analysis on all except Hex Chromium (48 hour HT)	(1) 250 mL glass bottle
	48	5	3	3	3	52	VOCs SVOCs; Metals; Cyanide; Hex Chrom PCBs: Pests	5032/5032A; 8270C; 6010B/7470A; 9013; 3060A 8082; 8081A			(3) 5-gram En Core; All other parameters: (1) 100ml amber glass jar.
Groundwater	6	1	1	1	1	10	VOCs; SVOCs; Metals; PCBs: Pests	8260B; 8270C; 6010B/7470A; 8082; 8081A	Cool to 4°C, VOCs: pH<2 with HCl; with HNO3		(3) 40 mL glass vials; (2) 1L amber glass; (1) 500ml plastic bottle preserved; (1) 500ml plastic bottle non preserved; (2) 1L amber glass
Soil Vapor	8	0	0	0	0	8	VOCs	TO-15	None		2 L Summa
Ambient Air	1	0	0	0	0	1					6 L Summa

TB – Trip Blank                      mL – milliliter  
 FB – Field Blank                    L - liter  
 DUP – Duplicate                    °C – degrees Celsius

### **3.12 DECONTAMINATION**

Where possible, samples will be collected using new, dedicated sampling equipment so that decontamination is not required. All non-dedicated drilling tools, equipment and sampling equipment will be decontaminated between boring locations using potable tap water and a phosphate-free detergent (e.g., Alconox) and/or a steam cleaner. All non-dedicated sampling equipment will also have a final rinse with deionized water. Decontamination water will be collected and disposed as investigation-derived waste (IDW).

### **3.13 DATA REVIEW AND REPORTING**

The NYSDEC ASP Category B data package will be validated by an independent data validation subconsultant and a DUSR summarizing the results of the data validation process will be prepared. All reported analytical results will be qualified as necessary by the data validation and will be reviewed and compared against background concentrations and/or applicable New York State criteria:

*Soil* – Unrestricted, Restricted Residential Soil Cleanup Objectives (SCOs) and Supplemental Soil Cleanup Levels (SCLs) as listed in 6NYCRR Part 375 and NYSDEC Commissioner's Policy CP-51;

*Groundwater* – Class GA groundwater standards and guidance values for groundwater as listed in NYSDEC Technical and Operations Guidance Series (TOGS) 1.1.1; and,

*Soil Vapor* – Ambient air sample results.

A report documenting the Remedial Investigation will be prepared, and will describe Site conditions and document applicable observations made during the sample collection. In addition, the report will include a description of the sampling procedures, tabulated sample results and an assessment of the data and conclusions. The laboratory data packages, DUSR, geologic logs, well construction diagrams, and field notes will be included in the report as appendices. All data will also be submitted electronically to NYSDEC via the Environmental Information Management System (EIMS) in EqUIS format.

## **APPENDIX A**

---

### RESUMES



Integral Consulting Inc.  
267 Broadway  
Fifth Floor  
New York, NY 10007

telephone: 212.962.4301  
facsimile: 212.962.4302  
kmccarty@integral-corp.com

**Kevin P. McCarty, P.G.**  
**Principal Geologist**

**PROFESSIONAL PROFILE**

Mr. Kevin McCarty is principal geologist with more than 25 years of experience providing investigative and remediation technical advice to project managers, coordinating and supervising all section staff, preparing and commenting on work plans and progress, providing guidance on protocols/equipment/specialty contractors, and organizing/coordinating schedules of staff and equipment in the performance of investigations and remediation on a wide variety of projects. Mr. McCarty worked on a wide variety of project sites that have been involved with regulatory programs and oversight of the New York State Department of Environmental Conservation (NYSDEC). These sites have included each division within NYSDEC and have covered nearly every region within New York State. Mr. McCarty has a long and trusted relationship with all levels of NYSDEC management and works with the department regularly on interpreting and implementing program enhancements. He is highly regarded for his knowledge of solid waste management in construction projects, which encompasses material generated from both upland locations and excavations, demolition of existing structures, and material removed from underwater excavation or dredging. He has worked and continues to work with all three regions of NYSDEC in the application of environmental conservation law and the New York's Solid Waste Management Policy in creating sustainable solutions on large construction efforts.

Mr. McCarty also has extensive environmental construction management experience on above and belowground projects. He has historically managed the environmental construction management aspects for the New York City Department of Environmental Protection (NYCDEP) Bureau of Engineering Design and Construction Combined Sewer Overflow Program. He continues to work with NYCDEP and has recently rewritten the NYCDEP environmental and material management specifications for the Departments \$2.1 billion dollar annual capital construction program.

**CREDENTIALS AND PROFESSIONAL HONORS**

B.A., Geology/Earth Science, Western Connecticut State University, Danbury, Connecticut,  
1985

Professional Geologist, Pennsylvania (License No. PG0024455G)

## CONTINUING EDUCATION AND TRAINING

Hazardous Waste Operations and Emergency Response 40-Hour Certification (1985; refreshers 1988-2012)

Hazardous Waste Operations Management and Supervisor 8-hour Certification (2008)

First Aid and CPR Certified (1988-2011)

## PROFESSIONAL AFFILIATIONS

Board of Directors for the New York City Partnership of Brownfield Practitioners

Board of Directors for New Partners for Community Revitalization

Member of the Downstate Soil Reuse Committee, New York City Department of Environmental Protection

Member of the New York City Brownfields Task Force

Charter Member of the Hudson Valley Brownfields Partnership Steering Committee

## RELEVANT EXPERIENCE

### *Emergency Response*

*Hurricane Sandy Flood Cleanup in New York City Financial District, New York*—Managed pumping and dewatering operations following the flooding of the lower section of Manhattan. Coordinated numerous contractors with pumping capacity to clear 53 million gallons of flooded office and parking garage space that contained water and ruptured fuel oil tank contents. Effort included NYCDEP and NYSDEC permits, insurance company coordination, and building health and safety coordination for the overall effort.

### *Environmental Investigation*

*Voluntary Cleanup Agreements at a Former Manufactured Gas Plant, New York*—Coordinated with city and state agencies for review and approval of documents related to 13 voluntary cleanup agreements for a former manufactured gas plant site between New York City and the State of New York under Voluntary Cleanup and Brownfields programs.

*Environmental Impact Study for a Planned New York City Jail, New York, New York*—Managed portions of an environmental impact study to locate a New York City jail on a then currently unclosed construction and demolition landfill.

*Environmental Impact Study for a Mixed Use Development, Queens, New York*—Managed portions of an environmental impact study for a mixed use commercial, residential, and open space development on more than 60 acres in Willets Point, Queens, New York. Managed all aspects of redevelopment internal to the project, including costs, subsurface geotechnical conditions, mitigation, remediation, FEMA and floodplain issues, and importation and settlement of fill and energy.

*Environmental Impact Study for a Multiuse Waterfront Port, New York*—Managed portions of an environmental impact study for proposed commercial, residential, and educational facilities at waterfront port and shipping terminal.



*Yankee Stadium Pocket Parks Project, New York*—Conducted an environmental site assessment for two new replacement parks slated to be constructed as part of the much larger Yankee Stadium rebuild. Both sites had petroleum spills that need to be addressed.

*Anheuser Busch/Greenway Remediation and Redevelopment, Bronx, New York*—Managed a project involving the classification and reuse of more than 43,000 cubic yards of material generated on adjacent construction project to raise the development site out of the 100-year floodplain. Successful project completion saved the City of New York more than \$6 million in disposal costs and the developer more than \$0.5 million toward the purchase of new fill. The project was awarded the 2010 Diamond Award for environmental projects in New York State and was a national finalist.

*Development of Fulton Fish Market, New York*—Evaluated most efficient method of beneficial reuse for excavated material taken from an area historically used to dispose of coal tar. Final selection was incineration in a NYSDEC-permitted waste-to-energy facility where the material would be used for fuel. In the end, a total of 7.6 megawatts of electricity was generated and placed into the local electrical grid as well as a significant amount of steam energy that was supplied via underground piping to local industrial facilities. The electrical generation equivalent was enough to supply 10,000 homes with power for 3.5 months. Project received an ACEC Diamond Award, an EPA Region 2 Phoenix Award, and 2011 New York City Sustainable Remediation Award.

### ***Large Design/Construction Management***

*Corona Vortex Chamber, Queens, New York*—Evaluated the predesign and design of installation of an underground wastewater treatment plant facility within a city street. Prepared a full range of construction specifications, and managed all aspects of material handling, classification, and disposal of more than 70,000 cubic yards of material during construction.

*Combined Sewer Overflow Tank, Flushing, New York*—Assessed pilot locations for a 28 million gallon underground combined sewer tank. Performed soil and geotechnical assessment of chosen locations, prepared construction specifications for entire construction effort. Effort included excavation to depths 45 ft below water table and *in situ* classification of more than 470,000 cubic yards of material. Construction management included oversight of entire excavation, staging, and approval for disposal. Additional effort included working with NYSDEC to create management efforts for fill material and deposition/testimony for construction change order lawsuit.

### **PUBLICATIONS**

McCarty, K. 2006. Market fresh. *Civil Engineering ASCE*. 76(6):60-65.



Integral Consulting Inc.  
267 Broadway  
Fifth Floor  
New York, NY 10007

telephone: 212.962.4301  
facsimile: 212.962.4302  
kbrodock@integral-corp.com

## **Keith P. Brodock, P.E., LEED AP**

### **Managing Engineer**

#### **PROFESSIONAL PROFILE**

Mr. Keith Brodock is a professional engineer with nearly 10 years of experience in environmental risk analysis, real estate portfolio liability estimation, transactional risk evaluation, remediation design, and decision management science. One of his primary responsibilities is managing and quantifying transactional risks for brownfield properties. Mr. Brodock routinely consults purchasers and sellers on the regulatory climate, technical interpretations, and risk mitigation measures. He frequently supports fate and transport modeling of vapor intrusion cases and engineering designs for remediation systems. Mr. Brodock utilizes data management software, including GIS and EQulS, to conceptualize and simply explain the spatial distribution and meaning of environmental data.

#### **CREDENTIALS AND PROFESSIONAL HONORS**

B.S., Chemical Engineering, Clarkson University, Potsdam, New York, 2003

Professional Engineer, New York (License No. 089004)

#### **CONTINUING EDUCATION AND TRAINING**

Leadership in Energy and Environmental Design Accredited Professional (2009)

Hazardous Waste Operations and Emergency Response 40-Hour Certification (2003-Present)

Hazardous Waste Operations Management and Supervisor 8-Hour Certification (2004)

OSHA 10-Hour Construction Safety Training (2005)

#### **PROFESSIONAL AFFILIATIONS**

Urban Land Institute, Redevelopment and Reuse Product Council (2012–Present)

Urban Land Institute, NY Mentor Program Chair (2011–Present)

National Society of Professional Engineers (2011–Present)

#### **RELEVANT EXPERIENCE**

##### ***Real Estate Transactions***

*Superfund Property Disposition and Liability Transfer, Wall, New Jersey*—Advised on the sale of 650-acre encompassing a federal Superfund site and more than 600 historical tenants.

Assisted with development of the selected remediation proposal for a \$1.5 million shooting range cleanup. Provided review of liability transfer offer, including cost/benefit analysis, insurance funding, and remediation cost-overrun risk using Monte Carlo modeling. Supported negotiations with EPA and the U.S. Department of Justice (USDOJ) to allow private takeover of remediation activities. Performed New Jersey Industrial Site Recovery Act investigation of more than 600 historical tenants as a requirement of the transaction.

*Real Estate Portfolio Acquisition Support, Staten Island, New York*—As part of client's acquisition of real estate investment trust, advised on environmental risks of the Staten Island property. With a state Superfund manufactured gas plant (MGP) site adjacent to the property, communicated potential liabilities to client. Worked in conjunction with seller's environmental consultant to conduct a soil gas / indoor air evaluation. Performed critical review of seller's soil vapor report.

*Cypress Equities Land Acquisition, King of Prussia, Pennsylvania*—Advised on pending land acquisition deal after conducting an in-depth environmental review and limited subsurface investigation. Developed a probabilistic cost estimate spanning the identifiable areas of concern for all of the multiple investigation/remediation scenarios applicable under the Act 2 regulations in Pennsylvania.

*Not-for-Profit Land Acquisition and Development, New York, New York*—Supported a not-for-profit organization in the acquisition and development of various tracts of land to build a charter school. Assisted with the Phase I evaluations. Prepared scopes of work for Phase II investigations. Managed the development of the regulatory interaction strategy with the New York City School Construction Authority. Provided sound engineering support for the development of subsurface remediation/mitigation measures for the protection of schoolchildren's health.

*Phase I Investigations, Various Properties, New Jersey, Arkansas, New York, Connecticut*—Conducted Phase I and Phase I/II hybrid investigations according to ASTM standards, both pre- and post-EPA All Appropriate Inquiries. Integrated state requirements into the analyses. Included radon, drinking water, and indoor air analysis, as required.

### ***Brownfields***

*Former Woodhaven Bowl Site, Forest Hills, Queens, New York*—Managed the team to concurrently satisfy five regulatory agencies, a then current landowner inexperienced at brownfield redevelopment, and a demanding future tenant with an extremely tight construction schedule to facilitate redevelopment. Utilized careful, advanced planning to facilitate the evaluation of each stakeholder's objectives. Used direct-sensing equipment (membrane interface probe) to quickly evaluate the potential release areas. Designed and oversaw the construction of a sub-slab depressurization system (SSDS) serving 40,000 square feet of retail space. Achieved the project objectives by delivering a building ready for development by the tenant.

*Residual Light Nonaqueous Phase Liquid (LNAPL) Investigation/Remediation, Long Island City, New York*—Designed and managed the investigation/remedial actions at a former fueling

depot. Identified data gaps in the previous consultant's work and designed a characterization plan to reduce the uncertainties in the conceptual site model. The characterization plan was integrated with the remedial action plan so only one field mobilization was necessary. Design an *in situ* chemical oxidant injection as the remedial action. The remedial action has not yet been completed.

*Subsurface Investigation and Tank Removal, Jersey City, New Jersey*—Managed a subsurface investigation at a warehousing property that contained railroad sidings, improperly closed underground storage tanks (USTs) and an aboveground fueling operation. Coordinated the removal/closure of the fueling operation and building demolition. Provided consultation on the investigation results to assist the client in securing financing for the property.

*Former Oil Terminal Investigation and Remediation, Brooklyn, New York*—Supported the property owner through negotiations with the New York State Department of Environmental Conservation (NYSDEC), as part of a groundbreaking deal where NYSDEC agreed to clean up a state Superfund site that was owned by a private entity. Assisted the inter-governmental team with triad planning and design to achieve a rapid subsurface investigation/characterization. Developed a work plan that included demolition and disposal of PCB-containing equipment.

*Dual-Phase Extraction and Discharge Compliance Engineering, Northern New Jersey*—Led a team to deploy a packaged solution to lower the concentrations of non-compliant water being discharged to a river, in which 60 percent of the chemicals causing the exceedance could not be identified by conventional laboratory techniques. Implemented enhancements to a high-vacuum, dual-phase extraction (DPE) remediation system, resulting in increased mass removal rates and system uptime. Achieved long-term cost savings in the form of decreased time onsite and automated task development. Developing a comprehensive systems management tool that uses engineering statistics to prescribe proactive solutions to maintenance and system exceedance issues. Created a U.S. Securities and Exchange Commission (SEC)-compliant cost estimate model that encompasses various remediation strategies through end-of-project lifecycle.

*Surfactant Soil Remediation, Margate City, New Jersey*—Project engineer and subcontractor manager for the remediation of a #2 fuel oil release beneath a residence. Applied an innovative surfactant flushing program to mobilize and extract adsorbed fuel oil from the soils. Careful planning and immediate reaction to changing site conditions were necessary to prevent further oil migration or the settling of a \$3 million mansion. Successful management of multiple subcontractors led to a soils closure within the project deadline.

*Subsurface MGP Investigation, Manhattan, New York*—Evaluated and interpreted the results of more than 700 samples collected during a subsurface investigation at a former MGP site. Composed the data analysis portion of the site characterization report for submittal to NYSDEC. Also supported subsurface field activities while acting as client liaison to the public.

*Dual-Phase Remediation System Improvements, Newark, New Jersey*—Analyzed performance issues of a catalytic oxidizer, part of a DPE remediation system. Determined that the control system was failing and causing false alarms. Led the team to implement a redesigned alarm system to better diagnose system trouble conditions.

*Heavy Metal Statistical Source Separation, Virginia*—Supported team in separating heavy metal contamination sources through electron microscopy and elemental analysis. Based on the differing elemental properties of various sources of lead, employed the use of statistical analysis to parse the portion of contamination that was likely attributable to the client from the entire mass, thereby saving money in remediation costs.

*Biennial Certification Reporting, Various Locations, New Jersey*—Oversaw biannual monitoring activities and biennial certification filings as part of New Jersey Department of Environmental Protection (NJDEP) agreements. Coordinated scheduling with clients and tenants for biannual property inspections. Completed biennial certification reporting process to NJDEP and various local entities.

### ***Vapor Intrusion***

*Farrand Controls State Superfund Site, Valhalla, New York*—Identified source and fate and transport of vapor-phase chlorinated solvents within a commercial/industrial operation to support the construction of a mitigation action. Traced the airflows from four distinct heating/cooling zones throughout the building to understand mixing and transport of the chlorinated solvents, as the highest readings of vapors did not match the site conditions. Identified the entry point of the vapors from contaminated groundwater beneath the site. Recommended a cost-effective solution for venting the vapors prior to entry into the building.

*Vapor Intrusion Investigation, Cranford, New Jersey*—Managed vapor intrusion investigation on adjoining properties to a chlorinated solvent spill. Negotiated access agreements with abutting property owners and tenants. Organized subcontractors' work to minimize business interruption while still maintaining the integrity of the investigation. Educated the neighboring property owners on the significance of the results and communicated continuing action plans to them.

*Mayflower Cleaners State Superfund Site, Great Neck, New York*—Evaluated the fate and transport of multiple sources of tetrachloroethylene (PCE; dry cleaning fluid) to support the preparation of a remedial action. The fate and transport evaluation included a known source beneath the slab of the building and a potential source from the adjacent dry cleaning operation. Developed a conceptual airflow model. Created the communication strategy with the regulatory agencies. Designed and managed the implementation of an interim remedial measure to mitigate the flow of PCE vapors from beneath the slab to the occupied tenant space.

*Vapor Intrusion Mitigation and Groundwater Investigation, Mahopac, New York*—Designed and installed an SSDS after performing a sub-slab communication test for New York State Department of Health (NYSDOH) and NYSDEC. Responsible for coordination of annual

system inspection and reporting, and tenant/owner education and guidance. Also coordinated quarterly groundwater sample reporting to NYSDEC.

*Chemical Release Investigation with Vapor Intrusion Testing and Mitigation, Ridgefield, New Jersey*—Oversaw field investigation to delineate a diving chlorinated solvent plume in a windowed confining layer. Developed a permanent vapor intrusion mitigation plan after conducting an indoor air investigation that revealed potential impacts to human health. Assisted in designing, permitting, and installing the SSDS intended to disperse organic vapors before entering the office building. Implemented risk mitigation plan that included automatic remote notification if the SSDS failed.

### ***Financial Analysis and Reporting***

*Streamlined SEC Environmental Liability Reporting, Seattle, Washington*—Using Lean techniques, developed a streamlined budgeting and liability reporting process that increases value while adhering to reporting regulations. With focus on increasing stakeholder value, merged the budget process that the consultant team used with the SEC liability reporting process that the client desired. Developed software to automate the reporting and updating procedure. Worked with the corporate liability manager to conform to both SEC and internal accounting policies.

*Real Estate Portfolio Valuation, Long Island, New York*—Developed defensible liability estimates, which led to a \$7 million savings in an IRS settlement. Working with a real estate appraiser, evaluated the assets and environmental liabilities in a 17-property portfolio at three key points in time. A remedial strategies matrix for the different time periods was merged into a decision tree with the properties' contamination characteristics using Monte Carlo simulation. An effective combination of computer estimation/simulation tools (RACER® and Monte Carlo) was used to justifiably support the estimates to the IRS.

*Environmental Remediation Estimates Using Monte Carlo Analysis, Various Locations, U.S.*—Determined and communicated environmental remediation cost risk to clients. Assisted owners with their internal budgeting process to communicate to their management the likely, best, and worst case scenarios. By understanding the range of costs associated with the project, management was equipped to make better decisions on expense allocation. Certain projects incorporated the management science of decision-tree analysis to consider alternate remedial technologies. In fact, the client was able to select a remedy based on the risk profile.

*Remedial Strategy Selection through Probabilistic Estimating, Central Vermont Public Service, Vermont*—Provided probabilistic estimating for different remedial strategies that helped the client to decide which decision-tree path was most appropriate for its business model. Utilized decision management tools in conjunction with cost estimates and sensitivity analyses to provide a full understanding of the likely results of choosing one strategy over another.

*Remedial Scenario Cost Estimating, Various Locations, U.S.*—Developed large-scale remediation cost estimates using RACER® for an automobile-industry client. Based on the remedial investigation data results, created low/medium/high range cost estimates that encompassed a “no further action” option all the way to installing and operating high-end remediation systems for many years. These cost estimates were presented to the court as part of a package to support emerging from bankruptcy.

*Defensible Environmental Liability Reports, Various Locations, U.S.*—Performed multiple mathematical simulations for cost estimation and disclosure under Sarbanes-Oxley reporting requirements for environmental liability. Incorporated decision management structures into multiple-site and multiple-option estimates. Results provided were defensible estimates that evaluated entire liability portfolios.

### ***Geothermal Testing and Design***

*First-Ever Standing Water Column (Open-Loop) Geothermal Study, New Haven, Connecticut*—Designed first-ever geothermal standing water column exchange study to characterize the thermal capacity of the proposed geothermal cooling system. The study simulated system loads and observed subsurface effects to qualify wells to sustain continued operations while preventing emergency discharges (bleed-off) to the local sewer authority. Results include determining the effects of various temperature differentials, load cycling, and high-permeability zones. The study results were subsequently utilized to design the optimal geothermal well network by minimizing the cost of the wells while ensuring adequate thermal capacity during peak loading. This work was performed as part of an overall sustainable design effort under the Leadership in Energy and Environmental Design (LEED) New Construction program. The project awaits certification results from the U.S. Green Building Council.

*Standing Water Column Geothermal Design, New Haven, Connecticut*—Conducted a geothermal response test for a private developer constructing a 700,000 square foot residential/retail complex. The results of the geothermal response test were used to design the optimal geothermal network that would provide an efficient level of heating/cooling for the building. This project has been selected by the U.S. Green Building Council as a pilot project for the LEED Program for Neighborhood Development.

*Automated Closed-Loop Geothermal Analysis, Cambridge, Massachusetts*—Assisted in constructing an automated geothermal closed-loop test that conformed to American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) building specifications. Modified existing open-loop thermal response testing equipment to perform unmanned closed-loop tests of shallow geothermal wells. Automated the system to perpetually adjust to stay in conformance with ASHRAE test methods. The equipment included a remote monitoring component for instantaneous data review and troubleshooting.

**Property Management**

*Building Environmental Management, New York, New York*—Oversaw emergency response to building water intrusion events to prevent the growth and subsequent abatement of mold spores. Conducted property visits to review Phase I action item implementation.

**Litigation**

*Litigation Support for Lead Impacts, Carteret, New Jersey—Reichhold, Inc. v. United States Metal Refining Company, et al.*, Civ. No. 03-453 (U.S.D.C., D.N.J.): Provided litigation support for a large, multinational mining and refining company against a plaintiff that alleged responsibility for lead impacts at a previously owned site. After review of the data, developed visual aids for court showing that the lead impacts were generally limited to areas where the plaintiff raised the grade with fill. Supported the science and legal teams during trial preparation and throughout the trial by gathering additional supporting evidence and generating opinions on new evidence submitted by plaintiff and testimony by plaintiff's consultants.

*Litigation Support for an Oil Spill Investigation, Long Island City, Queens, New York—DMJ Associates, L.L.C. v. Capasso, et al.*, Civ. No. 07-285 (U.S.D.C., E.D.N.Y.): Provided litigation support for a New York City developer that resulted in rapid settlement of the case. Designed and executed a field investigation to locate preferential pathways for mobilized LNAPL across multiple properties and a local waterway. Examined chemical fingerprints to determine the extent of migration. Scientifically demonstrated that not only did the LNAPL contaminate the property at hand, but also contaminated adjacent properties and was discharging directly into the Newtown Creek.

*Litigation Support for Federal Superfund Site, Lawrence Aviation Industries, Port Jefferson, Long Island, New York—United States of America v. Lawrence Aviation Industries, Inc., et al.* Civ. No. 04-818 (U.S.D.C., E.D.N.Y.): Provided litigation support for Lawrence Aviation Industries (LAI) to defend against a USDOJ lawsuit alleging widespread trichloroethylene contamination. After reviewing the investigation reports, determined that there was no scientific link to a portion of the alleged contamination, and, in fact, there appeared to be a second source. Appeared before USDOJ and EPA to argue these new findings in favor of LAI. Additionally, discussed the potential for EPA to relinquish site control to LAI, so that LAI could implement a more modern and effective remedial strategy, rather than the antiquated, likely-unsuccessful technology mandated in the record of decision.

*Underground Storage Tank Release Date Determination, Southern New Jersey*—Used statistical analysis to determine when a UST began leaking. Conducted a detailed analysis of the fuel delivery receipts as compared to the local weather conditions. Using statistical methods, the initial discharge time frame was determined with 95 percent confidence.

*Litigation Support for a Release Migrating toward I-95, Secaucus, New Jersey*—Provided opinion on remedial investigation and action plans to negotiate a delay in litigation (with client). Worked with opposing party to incorporate additional scope of work into its investigation



plan to fully characterize the release to groundwater. By successfully working with the opposing party's consultant, was able to delay the expense of trial for the client.

*Litigation Support, Various Locations, New Jersey and New York*—Provided technical review and opinions on various legal matters, mostly involving allocating liability for contamination. Disputed claims of scientific certainty for age-dating analyses of various methods. Collected and analyzed samples to produce independent liability allocation opinions.

#### **PRESENTATIONS/POSTERS**

Brodock, K., J. Rhodes, and P. Tornatore. 2005. Improving experience-based engineering estimates for environmental liabilities using Decisioneering® software. National Groundwater Association Conference on Remediation: Site Closure and the Total Cost of Cleanup.

Rhodes, J., and K. Brodock. 2005. Estimating environmental liabilities using probabilistic engineering methods. Web seminar.

Brodock, K., and J. Rhodes. 2005. Engineering estimates for environmental liability à la Crystal Ball. Crystal Ball Users Conference.



Integral Consulting Inc.  
267 Broadway  
Fifth Floor  
New York, NY 10007

telephone: 212.962.4301  
facsimile: 212.962.4302  
acarroll@integral-corp.com

**Alana M. Carroll**  
**Senior Scientist**

**PROFESSIONAL PROFILE**

Ms. Alana Carroll is an environmental geologist with experience on a variety of environmental consulting projects in the New York metropolitan area, specializing in remedial investigations, conceptual site modeling, and remedial design and implementation. Ms. Carroll provides analytical, technical, and regulatory guidance to clients, including developers and environmental attorneys, on a variety of projects in various stages of investigation, remediation, and redevelopment and has managed projects in the New York State Brownfield Cleanup Program, the New York State Department of Environmental Conservation (NYSDEC) Spills and Voluntary Cleanup Programs, and New York City "e" Designation Program.

**CREDENTIALS AND PROFESSIONAL HONORS**

B.S., Geology, Hofstra University, Uniondale, New York, 2003

**CONTINUING EDUCATION AND TRAINING**

Graduate Coursework, Master's Program, Geology, Brooklyn College, Brooklyn, New York (anticipated completion in 2013)

Hazardous Waste Operations and Emergency Response 40-Hour Certification (2004; refreshers 2005, 2006, 2007, 2009, 2010, 2011, and 2012)

First Aid and CPR Certified (2012)

Amtrak Contractor Safety Training (2010 and 2011)

**PROFESSIONAL AFFILIATIONS**

Member of Geologic Society of America

Member of New Partners for Community Revitalization

**RELEVANT EXPERIENCE**

*New York State Brownfield Cleanup Program, 34th Street and 42nd Street, West Side, Manhattan, New York*—Designed and managed multiple investigations to address New York State Spills and Brownfield Cleanup programs. Prepared scopes of work to address requirements of both state regulations and those agreed to by the former owner. Coordinated with

NYSDEC to modify scopes based on field observations and limitations, which resulted in not having to mobilize for additional investigations. Coordinated with multiple entities for access to perform investigations, including Javits Convention Center, Amtrak, New York City Department of Transportation, Metropolitan Transit Authority, and their contractors. Developed a three-phase analysis plan with the laboratory to determine the minimum required extent of excavation next to an Amtrak line while limiting analytical costs, decreasing in the extent of excavation, and lowering disposal and structural support requirement costs.

*New York State Brownfield Cleanup Program 388 Bridge Street, Downtown Brooklyn, New York—*Designed and managed all on- and off-site investigations of soil, soil gas, groundwater, and indoor air, including coordination of staff and subcontractors. Prepared investigation reports for submittal to client, project team, NYSDEC and the New York State Department of Health (NYSDOH). Involved in project team decision making with clients, lawyers, construction manager, and other consultants. Managed New York City Transit approvals for subsurface investigations near subway lines. Coordinated off-site access in residences, commercial spaces, and a private school. Participated in soil vapor extraction pilot test implementation and reporting. Assisted in the implementation of an off-site sub-slab depressurization system in an existing building; activities included system design/layout, installation oversight, testing, and long-term operation and maintenance. Responsible for NYSDEC/NYSDOH coordination and reporting for all investigations. Tracked project activities for inclusion in NYSDEC/NYSDOH programmatic submittals, including monthly reports and remedial schedules.

*New York State Spills Program, Gotham Center, Queens, New York—*Responsible for proposal and budget development, subcontractor selection and coordination, negotiation, and preparation of subcontractor terms and agreements, budget, and invoice review for a comprehensive subsurface investigation. Prepared and implemented scope of work for delineation of soil contamination and calculation of contaminant mass estimates. Subsequent to interpretation of site data and subgrade characteristics, developed and presented remedial alternatives and associated costs for internal and client project teams. Prepared remedial investigation report in coordination with the New York City Economic Development Corporation and the client for submittal to state regulators.

*New York Department of Environmental Remediation, Class 2 State Superfund, Laurel Hill Site, Queens, New York—*Managed multi-phase, multi-parcel project involving design, installation, and ongoing operation, maintenance, and monitoring of six remedial caps. Site challenges included the division of the site into individual parcels that were independent of one another; subsequently, each parcel had a stormwater management design individual to the surrounding parcels. Other site challenges included the site position in a wetlands area fronting Newtown Creek and working with the New York City Department of Transportation to facilitate its schedule for the adjacent Kosciusko Bridge restoration.

*New York State Brownfield Cleanup Program, Uniforms for Industry, Queens, New York—*Designed and managed an alternative approach to the off-site soil vapor intrusion

investigation. Utilized soil vapor modeling to evaluate potential human health risks and migration probabilities. Provided support for the design of a retrofitted passive venting system.

## **APPENDIX G**

---

### **HEALTH AND SAFETY PLAN WITH COMMUNITY AIR MONITORING PLAN (HASP/CAMP)**

**Appendix G**  
**Site Health and Safety Plan and**  
**Community Air Monitoring Plan**  
**For the West 28<sup>th</sup> Street**  
**Remedial Investigation Work Plan**

For the Property Located at 514-520 W28th Street  
New York, NY 10001  
Block 699, Lots 43 and 44  
NYSDEC BCP No. C231082

Submitted to:  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
Remedial Bureau B  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233-7016

Prepared for:  
28<sup>th</sup> Highline Associates, LLC  
c/o The Related Companies  
60 Columbus Circle  
New York, NY 10023

*Prepared by*



61 Broadway,  
Suite 1601  
New York, NY 10006

**February 19, 2013**

## CONTENTS

<b>LIST OF ATTACHMENTS .....</b>	<b>iv</b>
<b>ACRONYMS AND ABBREVIATIONS.....</b>	<b>v</b>
<b>SITE HEALTH AND SAFETY PLAN APPROVAL.....</b>	<b>vi</b>
<b>SITE HEALTH AND SAFETY PLAN ACKNOWLEDGMENT .....</b>	<b>vii</b>
<b>1 INTRODUCTION .....</b>	<b>1-1</b>
1.1 OBJECTIVES AND METHODS.....	1-2
1.2 ORGANIZATION .....	1-2
1.3 ROLES AND RESPONSIBILITIES .....	1-3
1.3.1 Site Safety Officer .....	1-3
1.3.2 Project Manager .....	1-4
1.3.3 Corporate Health and Safety Manager.....	1-4
1.3.4 Field Personnel .....	1-4
1.4 SITE DESCRIPTION .....	1-4
1.5 PROJECT MANAGER AND OTHER KEY CONTACTS.....	1-6
<b>2 CHEMICAL HAZARD EVALUATION .....</b>	<b>2-1</b>
<b>3 PHYSICAL HAZARD EVALUATION AND GUIDELINES .....</b>	<b>3-2</b>
3.1 GENERAL PHYSICAL HAZARDS .....	3-2
<b>4 PERSONAL PROTECTIVE EQUIPMENT AND SAFETY EQUIPMENT.....</b>	<b>4-1</b>
4.1 PERSONAL PROTECTIVE EQUIPMENT.....	4-1
4.2 SAFETY EQUIPMENT.....	4-1
<b>5 AIR MONITORING .....</b>	<b>5-1</b>
5.1 INTRODUCTION.....	5-1
5.2 PHOTOIONIZATION DETECTORS.....	5-2
5.3 DUST METERS .....	5-2
5.4 ACTION LEVELS .....	5-3
<b>6 HEALTH AND SAFETY TRAINING AND MEDICAL MONITORING .....</b>	<b>6-1</b>
6.1 HEALTH AND SAFETY TRAINING AND MEDICAL MONITORING.....	6-1
6.2 TRAINING REQUIREMENTS.....	6-1
6.2.1 Site Safety Meetings .....	6-1

6.3	MEDICAL MONITORING .....	6-2
<b>7</b>	<b>EMERGENCY RESPONSE PLAN.....</b>	<b>7-1</b>
7.1	EMERGENCY RECOGNITION AND PREVENTION .....	7-1
7.2	EMERGENCY RESPONSE AND NOTIFICATION .....	7-1
7.3	EMERGENCY DECONTAMINATION PROCEDURES .....	7-3
7.4	SITE COMMUNICATIONS.....	7-3
7.5	BUDDY SYSTEM.....	7-3
<b>8</b>	<b>WORK ZONES.....</b>	<b>8-1</b>
8.1	SOIL BORINGS AND MONITORING WELL INSTALLATION AND SOIL AND GROUNDWATER SAMPLING.....	8-1
8.2	SOIL VAPOR POINT INSTALLATION AND SOIL VAPOR SAMPLING .....	8-1
<b>9</b>	<b>EQUIPMENT DECONTAMINATION AND PERSONAL HYGIENE.....</b>	<b>9-1</b>
9.1	EQUIPMENT DECONTAMINATION PROCEDURES.....	9-1
9.2	PERSONAL HYGIENE.....	9-1
<b>10</b>	<b>VEHICLE SAFETY, SPILL CONTAINMENT, AND SHIPPING INSTRUCTIONS .....</b>	<b>10-1</b>
10.1	VEHICLE SAFETY .....	10-1
10.2	SPILL CONTAINMENT.....	10-1
10.3	SHIPPING INFORMATION.....	10-2
<b>11</b>	<b>TASK-SPECIFIC SAFETY PROCEDURE SUMMARY.....</b>	<b>11-1</b>
11.1	SOIL BORINGS AND MONITORING WELL INSTALLATION .....	11-1
<b>11.2</b>	<b>GROUNDWATER AND SOIL VAPOR SAMPLING.....</b>	<b>11-1</b>



## LIST OF ATTACHMENTS

- Attachment 1. Site Map and Hospital Route**  
Site Map  
Hospital Route Map
- Attachment 2. Regulatory Notices**  
Federal OSHA Right to Know Posters
- Attachment 3. Safety Procedures**
- Attachment 4. Material Safety Data Sheets**  
Liquinox®  
Alconox®  
Hydrochloric Acid
- Attachment 5. Near-Miss Incident Report**

## ACRONYMS AND ABBREVIATIONS

CFR	Code of Federal Regulations
CHSM	Corporate Health and Safety Manager
CPR	cardiopulmonary resuscitation
FBSG	feet below site grade
HAZWOPER	hazardous waste operations and emergency response
HDPE	high density polyethylene
HEPA	high-efficiency particulate air
IDLH	immediately dangerous to life and health
Integral	Integral Consulting Inc.
OSHA	Occupational Safety and Health Administration
PEL	permissible exposure limit
PPE	personal protective equipment
RIWP	Remedial Investigation Work Plan
SHSP	site health and safety plan
SSO	site safety officer
STEL	short-term exposure limit
SVOCs	semi-volatile organic compounds
VOCs	volatile organic compounds

## SITE HEALTH AND SAFETY PLAN APPROVAL

This site health and safety plan (SHSP) has been reviewed and approved for the Remedial Investigation of the property located at 505 West 27<sup>th</sup> Street, New York, NY.

\_\_\_\_\_  
Project Manager

\_\_\_\_\_  
Date



\_\_\_\_\_  
Corporate Health and Safety Manager

\_\_\_\_\_  
December 12, 2012

\_\_\_\_\_  
Date

## SITE HEALTH AND SAFETY PLAN ACKNOWLEDGMENT

In the absence of an appropriate subcontractor or consultant health and safety plan, and with the written approval of Integral Consulting Inc. (Integral) corporate health and safety manager (CHSM), the subcontractor or consultant may utilize the Integral site health and safety plan (SHSP), provided there is written concurrence from the subcontractor or consultant that they will directly administer the plan for its employees. The Integral SHSP is a minimum standard for the site and will be strictly enforced for all Integral personnel, or its subcontractors or consultants where applicable.

I have reviewed the SHSP prepared by Integral, dated October 9, 2013 for the fieldwork at the 505 West 27<sup>th</sup> Street, New York, NY property. I understand the purpose of the plan, and I consent to adhere to its policies, procedures, and guidelines while an employee of Integral, or its subcontractors or consultants. I have had an opportunity to ask questions regarding this plan, which have been answered satisfactorily by Integral.

_____ Employee signature	_____ Company	_____ Date
_____ Employee signature	_____ Company	_____ Date
_____ Employee signature	_____ Company	_____ Date
_____ Employee signature	_____ Company	_____ Date
_____ Employee signature	_____ Company	_____ Date
_____ Employee signature	_____ Company	_____ Date
_____ Employee signature	_____ Company	_____ Date

# 1 INTRODUCTION

It is the policy of Integral Consulting Inc. (Integral) to provide a safe and healthful work environment that is compliant with applicable regulations. No aspect of the work is more important than protecting the health and safety of all workers.

This site health and safety plan (SHSP) provides general health and safety provisions to protect workers from potential hazards during field activities performed under the Remedial Investigation Work Plan (RIWP) for the property located at 505 West 27th Street, New York, NY (hereafter referred to as the “site”). This SHSP has been prepared in accordance with local, State, and federal Occupational Safety and Health Administration (OSHA) safety regulations (29 CFR [Code of Federal Regulations] 1910 and 29 CFR 1926).

Work performed under the RIWP will be in full compliance with applicable health and safety laws and regulations, including site-specific and OSHA worker safety requirements and Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120) requirements. This SHSP follows both OSHA hazardous waste operations and emergency response and applicable regulations in 29 CFR 1910 and 29 CFR 1926.

Attachments to the SHSP provide a site-specific map and specific routes to the hospital from the site (Attachment 1), regulatory notices (Attachment 2), safety procedures (Attachment 3), material safety data sheets (Attachment 4), and a near-miss incident report form (Attachment 5).

This SHSP has been prepared to identify potential site hazards to the extent possible based on information available to Integral. Integral cannot guarantee the health or safety of any person entering this site. Because of the potentially hazardous nature of this site and the activity occurring thereon, it is not possible to discover, evaluate, and provide protection for all possible hazards that may be encountered. Strict adherence to the health and safety guidelines set forth herein will reduce, but not eliminate, the potential for injury and illness at this site. The health and safety guidelines in this plan were prepared specifically for this site and should not be used on any other site without prior evaluation by trained health and safety personnel.

A copy of this SHSP must be in the custody of the field crew during field activities. All individuals performing fieldwork must read, understand, and comply with this plan before undertaking field activities. Once the information has been read and understood, the individual must sign the Site Health and Safety Plan Acknowledgment form provided as part of this plan. The signed form will become part of the project file.

This plan may be modified at any time based on the judgment of the Integral site safety officer (SSO) in consultation with the project manager and Integral corporate health and safety manager (CHSM) or designee. Any modification will be presented to the onsite team during a safety briefing and will be recorded in the field logbook.

## 1.1 OBJECTIVES AND METHODS

The primary objective of the RIWP activities is to evaluate soil, groundwater and soil vapor conditions beneath the site. The RIWP will be performed as a supplement to the previous Supplemental Site Investigation completed by Integral in August 2012 and will address data gaps and previously identified areas of concern.

To meet these objectives, field activities will include:

1. The installation of 24 soil borings to approximately 10 feet below grade and the collection of 48 soil samples;
2. Installation of 2 groundwater monitoring wells and collection of 6 groundwater samples from new and existing wells; and
3. Installation of 8 soil vapor sampling points and the collection of 8 soil vapor samples.

A direct-push track-mounted Geoprobe unit or equivalent drill rig will be used to complete the soil boreholes. Two soil samples will be collected from each completed boring using a 2-inch diameter, five-foot steel sampler with dedicated plastic liners or equivalent.

Monitoring wells will be installed using a track mounted Geoprobe, outfitted with 4¼" hollow-stem auger attachments. Wells will be installed approximately 5.5' below the groundwater table (expected to be approximately 8-10 ftbg) in order to collect samples in the shallow saturated zone. The wells will be constructed of 2" diameter PVC riser with 10' of .020" slotted PVC screen. Monitoring wells will be installed concurrent with two soil boring locations and will be developed on the day of their installation. Each well will be finished with a flush-mounted manhole cover. One week following the installation of the monitoring wells, groundwater samples will be collected.

Each soil vapor probe will be installed using dedicated 1/8" Teflon tubing. The tubing will be implanted into the hole and the annular space sealed with bentonite to prevent ambient air from entering the area around the probe. The soil vapor samples will be collected in clean, batch certified, two (2) liter Summa™ canisters at flow rates no greater than 200 ml/min. Soil vapor samples will be collected over a period of two (2) hours.

Additional details on the objectives and methods are presented in the field sampling plan, Appendix D to the RIWP.

## 1.2 ORGANIZATION

This SHSP covers three field activities: (1) installation of soil borings and collection of soil samples, (2) installation of groundwater monitoring wells and collection of groundwater samples, and (3) installation of soil vapor sampling points and collection of soil vapor samples. Chemical and physical hazard evaluations are presented in Sections 2 and 3, respectively.

Specific health and safety guidelines associated with each task, including a brief description of the work, are discussed in Section 11 (Task-Specific Safety Procedures).

## **1.3 ROLES AND RESPONSIBILITIES**

All Integral personnel on this site must comply with the requirements of this SHSP. The Integral SHSP is a minimum standard for the site and will be strictly enforced for all Integral personnel, or subcontractors or consultants, where applicable. The specific responsibilities and authority of management, safety and health, and other personnel on this site are detailed in the following paragraphs.

### **1.3.1 Site Safety Officer**

The SSO has full responsibility and authority to implement this SHSP and to verify compliance. He or she reports to the project manager and is onsite or readily accessible to the site during all work operations. The SSO is responsible for assessing site conditions and directing and controlling emergency response activities. The specific responsibilities of the SSO include the following:

- Managing the safety and health functions on this site
- Serving as the onsite point of contact for safety and health concerns
- Assessing site conditions for unsafe acts and conditions and ensuring corrective action
- Ensuring that all Integral employees and subcontractors understand and follow the SHSP
- Ensuring that daily work schedules and tasks are reasonable for the required levels of effort and weather conditions
- Confirming local emergency response phone numbers and locations
- Conducting and documenting the initial and daily or periodic health and safety briefings
- Evaluating and modifying the level of protective apparel and safety equipment, based on site conditions
- Ensuring that the field team observes all necessary decontamination procedures.

If the SSO determines that site conditions are unsafe, he or she has the authority to suspend field operations until the problem is corrected. The SSO can modify SHSP procedures in the field. Any changes must be documented in the field logbook, and field staff must be immediately informed of the change. The project manager and Integral's CHSM must be notified by phone or e-mail within 24 hours of any major changes to the SHSP.

### 1.3.2 Project Manager

The project manager has overall responsibility to ensure that personnel working onsite are safe. The specific responsibilities of the project manager include:

- Ensuring that the SHSP is developed prior to the field work or site visit
- Reviewing and approving the SHSP prior to the field work or site visit
- Ensuring employee understanding of and compliance with the SHSP.

### 1.3.3 Corporate Health and Safety Manager

The CHSM provides guidance to the project manager and SSO on SHSP preparation and reviews and approves the SHSP. The CHSM also serves as an arbitrator if there is a conflict between the project manager, SSO, and field personnel. In addition, the CHSM<sup>1</sup> conducts periodic unannounced audits of Integral field operations to ensure compliance with the site-specific health and safety plan.

### 1.3.4 Field Personnel

All Integral personnel and subcontractors, where applicable, on this site are responsible for reading and complying with this SHSP, using the proper personal protective equipment (PPE), reporting unsafe acts and conditions, and following the work and safety and health instructions of the project manager and SSO. All Integral personnel, subcontractors, or consultants can and are encouraged to suspend field operations if they feel conditions have become unsafe.

## 1.4 SITE DESCRIPTION

The site is located in a commercial and residential area of the West Chelsea section of the Borough of Manhattan. The site is comprised of an approximately 20,000-square foot P-shaped parcel located in the middle of the block and is bounded to the north by W28th Street; to the east by 10th Avenue; to the south by W27th Street and to the west by 11th Avenue. Adjacent properties include mixed use commercial and residential buildings to the south, west and east; manufacturing to the south; and the Highline Park (former elevated rail structure) to the east. The legal description of the site is Block 699, Lots 43 and 44. A site location map is provided as Figure 1. Groundwater at the site was encountered at depths ranging from approximately 8.5 to 11 fbsg. The local groundwater flow is assumed to be west/southwest toward the Hudson River. The topography of the site is relatively flat.

---

<sup>1</sup> The audit task may be delegated to an office health and safety representative by the CHSM.



The site is currently occupied by a scrap yard and a separate car rental establishment. It includes a large trailer body, sheds, and storage areas. The site surface is covered by a non-uniform, undulating concrete slab that ranges in thickness from 12 to 48 inches and contains areas of asphalt paving and soil cover. Lots 44 and 43 are separated by an approximately 20 foot high sheet metal wall.

The trailer body on Lot 44 is used as office space, while the sheds house equipment reported to maintain the rental cars. It is not believed that major maintenance of the vehicles is performed on the property. The storage on Lot 43 consists of large piles of scrap metal and sheds full of various pieces of metal equipment such as, refrigeration units and generators.

According to the previous investigations conducted by Impact Environmental in 2007, there are presently four inactive USTs located on-site. Two 550-gallon diesel USTs are located in the northeastern corner of Lot 43 and two gasoline USTs of unknown capacity are located in the southern portion of Lot 44. The Phase I indicated that the New York City Department of Building (NYCDOB) had issued a gasoline tank permit in 1934; no permit information was available regarding the diesel USTs. Additionally, no documentation was available regarding the proper decommissioning or any tightness testing associated with these USTs.

- **Owners/tenants:** *To be determined*
- **Site history:** *Residential, wood yard, laundry, auto repair shop, motor freight station, automobile garage and scrap yard*
- **Current site use:** *Automobile garage and scrap yard*
- **Hazardous waste site:** *No*
- **Industrial waste site:** *No*
- **Topography (if applicable):** *Flat*
- **Site access:** *Multiple: West 27<sup>th</sup> and West 28<sup>th</sup> Streets*
- **Nearest drinking water/sanitary facilities:** *On-site or in vicinity*
- **Nearest telephone:** *N/A*
- **Size of site:** *22,200 square feet*
- **Pathways for hazardous substance dispersion:**

A detailed site map is provided in Attachment 1 to this SHSP.

The Limited Phase II Site Investigation conducted by Impact Environmental in May and June of 2007 was performed for 699-44 Corp. The investigation included: the collection of fifteen soil samples and five grab groundwater samples from borings located in areas of concern identified in the Phase I ESA. All of the soil samples, with the exception of one, indicated elevated levels of semi-volatile organic compounds (VOCs) consistent with historic fill. According to Impact Environmental, one soil sample located in the northwestern section of Lot 44 exhibited elevated

levels of volatile organic compounds (VOCs) above the applicable standards consistent with degraded petroleum and one groundwater sample collected in the same area exhibited elevated levels of VOCs and SVOCs above applicable standards consistent with chlorinated solvent product.

The August 2012 Supplemental Site Investigation, conducted by Integral, included five direct push soil borings, four groundwater monitoring wells and three soil vapor points, all installed on-site. From these locations ten soil samples, five groundwater samples and three soil vapor samples were collected. The results of the Supplemental Site Investigation indicated the following:

- SVOCs were present and consistent with those found in historic fill in shallow soils, heavy metals from historic industrial use;
- Heavy metals present in the soil could be the result of present and historic site usage as a metals scrap yard. Metals in the soil could also be attributed to the presence of fill across the site;
- PCBs and pesticides exceeded unrestricted use criteria in one soil sample, SB-4(4'); and
- Groundwater at the site indicated the presence of (northwestern corner) contamination from what appears to be degraded chlorinated solvents; and
- Chlorinated solvents and degradation products above action levels in soil vapor.

## 1.5 PROJECT MANAGER AND OTHER KEY CONTACTS

	Name (Affiliation)	Work Telephone	Cell Phone
Project manager	Alana Brannon (Integral)	(212) 962-4301 x306	(646) 895-1430
SSO	James L'Esperance (Integral)	212) 962-4301 x308	(646) 285-4808
CHSM	Eron Dodak (Integral)	(503) 943-3614	(503) 407-2933
Client contact	Jim Harris (The Related Companies)	212 801-3732	

## 2 CHEMICAL HAZARD EVALUATION

Potentially hazardous chemicals known to exist at the site are primarily VOCs, SVOCs, heavy metals, PCBs, and pesticides associated with historic site use and fill material. The chemicals of concern, applicable chemical properties, and potential exposure routes are presented in the following sections.

The following table lists the historical site maximum constituent concentrations for constituents at the Site. The table also lists the chemical properties and OSHA permissible exposure limit (PEL), short-term exposure limit (STEL), and immediately dangerous to life and health (IDLH) level. Breathing zone air can be monitored to ensure that the chemicals do not exceed the PEL. If any of the chemicals exceed the PEL, immediate action is required (e.g., don respirators, leave site) as designated in Section 5 (Air Monitoring) in this SHSP.

### Chemical Properties

Chemical of Concern	Concentration (site maximum or range expected)	Medium	OSHA PEL	OSHA STEL	OSHA IDLH	IP(eV)	Carcinogen or Other Hazard
1,1-dichloroethane	8.4µg/l to 9.9µg/l	Groundwater	100 ppm (NIOSH REL 100 ppm)	--	3000 ppm	11.06	Flammable Liquid
cis-1,2-dichloroethene (1,2-dichloroethene)	220 µg/l and 260 µg/l	Groundwater and Soil Vapor	200 PPM (NIOSH REL 200 ppm)	--	1000 ppm	9.65	Flammable liquid
Chrysene (under "Coal tar pitch volatiles")	Less than 0.002µg/l	Groundwater and Soil Vapor	0.2 mg/m <sup>3</sup> (NIOSH REL 0.1 mg/m <sup>3</sup> )	--	80 mg/m <sup>3</sup>	--	Carcinogen
bis(2-ethylhexyl) phthalate	6.10µg/l	Groundwater	5 mg/m <sup>3</sup> NIOSH REL 5 mg/m <sup>3</sup> )	(NIOSH ST 10 mg/m <sup>3</sup> )	5000 mg/m <sup>3</sup>	--	Carcinogen, Combustible Liquid: F.I.P. at or above 200°F
benzo(b) fluoranthene	Less than 1 mg/kg in soil and 0.4 µg/l in groundwater	Soil and Groundwater	--	--	--	--	--
benzo(a)pyrene (under "Coal tar pitch volatiles")	Less than 1 mg/kg in soil	Soil	0.2 mg/m <sup>3</sup> (NIOSH REL 0.1 mg/m <sup>3</sup> )	--	80 mg/m <sup>3</sup>	--	Carcinogen
indeno(1,2,3-cd)pyrene	Less than 0.5 mg/kg in soil	Soil	--	--	--	--	--
barium	Up to 1000 mg/kg	Soil	--	--	--	--	--
Mercury	Up to 0.74 mg/kg	Soil	0.1 mg/m <sup>3</sup> (NIOSH REL 0.1 mg/m <sup>3</sup> ) (as Hg)	--	10 mg/m <sup>3</sup> (as Hg)	--	Poison

Chemical of Concern	Concentration (site maximum or range expected)	Medium	OSHA PEL	OSHA STEL	OSHA IDLH	IP(eV)	Carcinogen or Other Hazard
iron	Up to 49,000 µg/l	Groundwater	--	--	--	--	--
lead	Up to 580 mg/kg	Soil	0.050 mg/m <sup>3</sup> (NIOSH REL 0.050 mg/m <sup>3</sup> ) (as Pb)	--	100 mg/m <sup>3</sup> (as Pb)	NA	--
magnesium	Up to 61,000 µg/l	Groundwater	--	--	--	--	--
manganese	Up to 4,123 µg/l	Groundwater	5 mg/m <sup>3</sup> (NIOSH REL 1 mg/m <sup>3</sup> ) (as Manganese compounds)	NIOSH ST 3 mg/m <sup>3</sup>	500 mg/m <sup>3</sup> (as Mn)	NA	Combustible Solid
nickel	Up to 294.4 µg/l	Groundwater	1 mg/m <sup>3</sup> (NIOSH REL 0.015 mg/m <sup>3</sup> )	--	10 mg/m <sup>3</sup> (as Ni)	NA	Carcinogen
zinc	Up to 760 mg/kg	Soil	--	--	--	--	--
4,4'-DDT	Up to 0.0244 mg/kg	Soil	1 mg/m <sup>3</sup> (NIOSH REL 0.5 mg/m <sup>3</sup> )	--	500 mg/m <sup>3</sup>	--	Carcinogen
4,4' -DDD	Estimated up to 0.0063 mg/kg	Soil	--	--	--	--	--
Dieldrin	Up to .0074 mg/kg	Soil	0.25 mg/m <sup>3</sup> (NIOSH REL 0.25 mg/m <sup>3</sup> )	--	50 mg/m <sup>3</sup>	--	Carcinogen

**Notes:** -- = none established  
 Ca = carcinogen  
 IDLH = immediately dangerous to life and health  
 IP(eV) = ionization potential (electron volts)  
 mg/kg = milligrams per kilogram  
 mg/m<sup>3</sup> = milligrams per cubic meter

NA = not available  
PEL = permissible exposure limit  
ppm = parts per million  
STEL = short-term exposure limit

The table below summarizes the chemical characteristics and potential chemical exposure routes at the site.

	Likely	Possible	Unlikely
<b>Potential Chemical Exposure Routes at the Site:</b>			
Inhalation		X	
Ingestion			X
Skin absorption		X	
Skin contact		X	
Eye contact		X	
<b>Chemical Characteristics:</b>			
Corrosive			X
Flammable			X
Ignitable			X
Reactive			X
Volatile		X (1,1-dichloroethane)	X (metals, SVOCs)
Radioactive			X
Explosive			X
Biological agent			X
Particulates or fibers		X (dust, metals)	
If likely, describe:			

### 3 PHYSICAL HAZARD EVALUATION AND GUIDELINES

The following sections present general physical hazards and guidelines.

#### 3.1 GENERAL PHYSICAL HAZARDS

The following table presents possible physical hazards that are expected to be present during field activities.

Possible Hazard	Yes	No	Proposed Safety Procedure
Heavy equipment	X		Stay back from operating equipment; wear safety vests and hard hats; coordinate and maintain eye contact with equipment operator.
Material handling	X		Lift properly; seek assistance if necessary; do not overfill coolers or boxes. Seek assistance if drums must be moved.
Adverse weather	X		Seek shelter during electrical storms; work in adverse weather conditions only with proper training and equipment.
Plant/animal hazards	X		Know local hazards and take appropriate precautions. Use insect repellent if mosquitoes are persistent.
Uneven terrain/tripping	X		Use caution, wear properly fitting shoes or boots, and keep work area orderly.
Noise	X		Wear ear protection when working around heavy equipment and other noise sources.
Cold/hypothermia	X		Keep warm and dry; bring changes of clothes; do not work in extreme conditions without proper equipment and training. Follow cold stress information (Attachment 3). <i>Note:</i> potential for cold/hypothermia will depend on season and location of the site.
Falling objects	X		Wear hard hats near overhead hazards (i.e., winch).
Drill rigs	X		Avoid all pinch points; do not operate or stand near rig during electrical storms; stay a safe distance (25 ft) from power lines; level drill rig.

Summary of potential physical hazards posed by proposed site activities:



Activity	Potential Hazard
Soil boring, groundwater monitoring well, soil vapor point installation, and sampling	Heavy equipment, slips/trips/falls, falling objects, drill rigs, noise, plant/animal hazards, material handling, adverse weather, cold/hypothermia
Sample handling/mobilization	Material handling, slips/trips/falls

## 4 PERSONAL PROTECTIVE EQUIPMENT AND SAFETY EQUIPMENT

The following sections address PPE and safety equipment required for completing the field activities.

### 4.1 PERSONAL PROTECTIVE EQUIPMENT

Based on the hazards identified above in Sections 2 and 3, the following table identifies the PPE required for site activities.

Site Activity	Level of Protection	
	Initial	Contingency <sup>a</sup>
Soil sampling	D	Leave Exclusion Zone and assess situation
Groundwater sampling	D	Leave Exclusion Zone and assess situation
Soil vapor sampling	D	Leave Exclusion Zone and assess situation
Sample handling	D	Leave Exclusion Zone and assess situation

<sup>a</sup> Based on unexpected change in site conditions

Each level of protection will incorporate the following PPE:

Level D	X	Long pants and shirt or work coveralls, hard hat, latex or nitrile gloves under work gloves, eye protection, and steel-toed boots are required. Hearing protection is required as needed.
---------	---	---

### 4.2 SAFETY EQUIPMENT

The following safety equipment will be onsite during the proposed field activities.

**Air Monitoring** (check the items required for this project)

<input checked="" type="checkbox"/>	PID
<input type="checkbox"/>	LEL/O <sub>2</sub> meter

<input type="checkbox"/>	Air sampling pumps
<input checked="" type="checkbox"/>	MINIRAM (particle monitors)

- |   |  |
|---|--|
| <input type="checkbox"/> H <sub>2</sub> S meter                     | <input type="checkbox"/> Radiation meter       |
| <input type="checkbox"/> Detector pump and tubes<br>(e.g., benzene) | <input type="checkbox"/> Other: _____<br>_____ |

**First Aid Kit** (mandatory, including absorbent compress, adhesive bandages, adhesive tape, antiseptic, burn treatment, medical exam gloves, sterile pad, CPR shield, triangle bandage, scissors [for cutting off the PPE from an injured person])  
(check additional items required for the site)

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Emergency blanket | <input checked="" type="checkbox"/> Sunscreen  |
| <input checked="" type="checkbox"/> Insect repellent  | <input type="checkbox"/> Other: _____<br>_____ |

**Other** (check the items required for this project)

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Eyewash   | <input type="checkbox"/> Fit test supplies                         |
| <input checked="" type="checkbox"/> Drinking water  | <input checked="" type="checkbox"/> Fire extinguisher (drill rigs) |
| <input type="checkbox"/> Stopwatch for monitoring heart rate<br>for heat stress monitoring <sup>2</sup> | <input type="checkbox"/> Windsock                                  |
| <input type="checkbox"/> Thermoscan <sup>®</sup> thermometer for heat<br>stress monitoring              | <input checked="" type="checkbox"/> Cellular phone                 |
| <input type="checkbox"/> Survival kit <sup>3</sup>  | <input type="checkbox"/> Radio sets                                |
| <input type="checkbox"/> Personal flotation device  | <input checked="" type="checkbox"/> Global positioning system      |
| <input type="checkbox"/> Cool vests   | <input type="checkbox"/> Other: <u>Hand sanitizer</u><br>_____     |

<sup>2</sup> Heart rate monitoring requires special training.

<sup>3</sup> Consult the CHSM for guidance for site-specific survival kits.

## 5 AIR MONITORING

The purpose of the air monitoring program is to avoid or minimize exposure of the field personnel and the public to potential environmental hazards in the soil during remedial activities. Results of the air monitoring will be used to determine the appropriate response action, if needed.

29 CFR 1910.120(h) specifies that monitoring shall be performed where there may be a question of employee exposure to hazardous concentrations of hazardous substances in order to assure proper selection of engineering controls, work practices and personal protective equipment so that employees are not exposed to levels which exceed permissible exposure limits, or published exposure levels if there are no permissible exposure limits, for hazardous substances.

Air monitoring will be conducted when entering previously uncharacterized sites, when working in the vicinity of uncontained chemicals or spills, when opening containers and well casings, and prior to opening confined spaces. (Note: Integral personnel are not trained or authorized to enter confined spaces under any circumstances.) Air monitoring must be conducted to identify potentially hazardous environments and determine reference or background concentrations. Air monitoring can sometimes be used to augment judgment in defining exclusion zones.

### 5.1 INTRODUCTION

Personal air monitoring involves collection of samples within the breathing zone of the field personnel to better understand exposures, ensure appropriate levels of PPE, and document compliance with regulation. Such samples may be full shift for comparison to PELs (or other applicable occupational exposure limits) or short term, for comparison to STELs. Some chemicals in soil or aqueous media may volatilize or become aerosolized and be inhaled by field personnel.

Breathing zone air can be monitored to ensure that the chemicals do not exceed a regulatory or project-specific action level (generally 50 percent of the PEL). Integral commonly uses photoionization detectors (PIDs) and dust meters (e.g., MINIRAM [Miniature Real-time Aerosol Monitor]) for monitoring volatile organic compounds and particle constituents, respectively. In practice, the air directly in the field personnel's breathing zone is monitored with the PID or dust meter for 10-15 seconds. The highest reading is recorded in the project logbook and checked against the site-specific action level in the table below. If any of the constituents exceed

the action level presented in Section 5.4, immediate action is required (e.g., don respirators, leave site, etc.) as designated<sup>4</sup>.

The following sections provide general guidance on the selection and calibration of PIDs and dust meters, which are typically rented for Integral field projects.

## 5.2 PHOTOIONIZATION DETECTORS

It is critical to order a PID with a detector lamp with the appropriate ionization energy to detect chemicals of interest at the site. The ionization energy of the lamp must be greater than the ionization potential of the chemicals of interest. (Ionization potentials are listed in the National Institute of Occupational Safety and Health [NIOSH] pocket guide to chemicals and are presented in Section 2). Be sure that the meter arrives at least a day prior to the start of the fieldwork so field personnel can familiarize themselves with the operation of the meter and confirm that it was not damaged during shipping. Field personnel must also read the operation manual to become familiar with operation of the PID prior to use in the field. Note that moisture may damage the detector lamp and/or provide erroneous readings, so a moisture filter is used on the probe. Also note that the PID will only accurately quantitate the material used in the calibration process. A response factor is used to measure the sensitivity of the PID to a particular chemical present at the site. Response factors are normally presented in the operation manual for the PID.

The PID must be calibrated daily in accordance with the manufacturer's specifications, which are provided in the operation manual. The calibration typically requires the use of a span gas (generally 100 ppm isobutylene) and zero gas (generally fresh air). Be sure that all the required calibration equipment/supplies are provided with the PID (e.g., span gas cylinder, regulator, tubing, and Tedlar™ bag). Record calibration data in the field logbook.

Monitoring for organic vapors should be conducted in the breathing zone of employees using a PID during remedial activities in contaminated areas. If sustained total organic vapors are measured in the breathing zone above 5 ppm, Level C protection will be donned by personnel in the work area and/or site evacuation.

## 5.3 DUST METERS

It is critical that the dust meter is capable of measuring the concentrations of airborne dust that are at or below the site-specific action levels presented below. Be sure that the meter arrives at least a day prior to the start of the fieldwork so field personnel can familiarize themselves with

---

<sup>4</sup> Note that neither the PID nor the MINIRAM can identify chemicals. The PID detects total ionizable volatile organic compounds and the MINIRAM detects total particles of sufficient diameter to be detected.

the operation of the meter and confirm that it was not damaged during shipping. Field personnel must also read the operation manual to become familiar with its operation prior to use in the field.

The dust meter must be field checked (i.e., zeroed) daily in accordance with the manufacture's specifications, which are provided in the operation manual. A dust meter field check typically involves zeroing the meter with ambient or filtered air. Be sure that all the required zeroing and operational equipment/supplies are provided with the dust meter. Record field check data in the field logbook.

Real time monitoring for airborne dust should be performed during excavation activities. The instrument to be used is the MIE Inc. DataRAM or equivalent with a latching alarm. The instrument will be fitted with an omnidirectional sampling inlet to get representative samples under a variety of wind speeds and directions. A RAM-TCH inlet heater may also be used in humid conditions to remove water vapor from the sampling stream.

The dust monitor should be set up downwind of the excavation activities to verify that dust control methods are adequate. The latching alarm will be set at 1.0 mg/m<sup>3</sup> to alert site personnel that the action level has been exceeded. When the alarm is activated, the work area will be wetted to control dust. Should dust control measures fail to reduce total dust concentrations below 100 µg/m<sup>3</sup>, Level C protection will be donned by all personnel in the work area and areas downwind will be monitored. Readings above 20 mg/m<sup>3</sup> in the breathing zone or at the downwind perimeter of the work area will result in the cessation of the dust generating activities and/or site evacuation.

If warranted, NYSDEC will be petitioned to reduce the scope of particulate monitoring activities.

## 5.4 ACTION LEVELS

The following action levels have been established to determine appropriate actions to be taken during site investigation activities:

Instrument	Observation	Action <sup>a</sup>	Comments
PID	≤5 ppm over background sustained for 1 minute	Continue working	
PID	≥5 ppm over background sustained for 1 minute	Evacuate Site	
Dust Meter	<20 mg/m <sup>3</sup>	Continue working	

---

Dust Meter	$\geq 20 \text{ mg/m}^3$	Evacuate Site
------------	--------------------------	---------------

---

The action level for dust is based on the lowest calculated exposure limit of airborne dust containing inorganic contaminants that have established OSHA PELs with a safety factor of 4. The inorganic contaminant of concern with the lowest calculated exposure limit with the aforementioned criteria was lead.

Dust monitoring measurements should be recorded on the instrument data logger and downloaded daily. Data should be cleared from the data logger before the next day's use. The readings should be recorded every 10 minutes as well as complete sampling time integrated averages. The field notebook or other suitable log book should be used to describe the location of the dust monitor relative to the dust generating activities as well as wind direction. A copy of this description should be attached to the printout of the dust monitor data.

Weekly air monitoring reports shall be submitted to the Department while remedial activities are performed at the site.

**Note:**

<sup>a</sup> Examples: "upgrade to Level C" or "leave site."

Maintain, calibrate, and field check all air monitoring equipment in accordance with the manufacturer's recommendations.

## 6 HEALTH AND SAFETY TRAINING AND MEDICAL MONITORING

The following sections present requirements for health and safety training and medical monitoring.

### 6.1 HEALTH AND SAFETY TRAINING AND MEDICAL MONITORING

State and federal laws establish training requirements for workers at uncontrolled hazardous waste sites (including areas where accumulations of hazardous waste create a threat to the health and safety of an individual, the environment, or both). Integral and subcontractor personnel are required to complete the following training requirements prior to working at the site.

### 6.2 TRAINING REQUIREMENTS

Task	No Training	24-hour	40-hour <sup>a</sup>	Supervisor <sup>b</sup>	First Aid/CPR <sup>c</sup>	Medical Monitoring
<b>Integral Field Personnel</b>						
James L'Esperance			X		X	X
Emily Guyer			X		X	X

**Notes:**

<sup>a</sup> Must have current OSHA 8-hour refresher if it has been more than a year since the OSHA 40-hour training.

<sup>b</sup> At least one person onsite must be OSHA HAZWOPER supervisor trained if this is a hazardous waste site.

<sup>c</sup> At least one member of each team of two or more people onsite must be first aid/CPR trained.

<sup>d</sup> Integral subcontractors and consultants may have requirements that are more stringent than those listed above. These are minimum training and monitoring requirements required to work on this site.

#### 6.2.1 Site Safety Meetings

Site safety meetings must be held before beginning new tasks or when new staff enter the site. Site safety meetings should be held at a minimum of once a week and should be held daily on complex or high hazard projects. Tailgate safety meetings should occur every morning during review of the day's work plan, covering specific hazards that may be encountered. Additional meetings will be held at any time health and safety concerns are raised by any of the personnel. Attendance and topics covered, including tailgate meetings, are to be documented in the field logbook.



### 6.3 MEDICAL MONITORING

OSHA requires medical monitoring for personnel potentially exposed to chemical hazards in concentrations in excess of the PEL for more than 30 days per year and for personnel who must use respiratory protection for more than 30 days per year. Integral requires medical monitoring for all employees potentially exposed to chemical hazards.

Will personnel working at this site be  
enrolled in a medical monitoring  
program?

Yes        X        No

## 7 EMERGENCY RESPONSE PLAN

The following sections discuss emergency recognition and prevention, emergency response and notification, emergency decontamination, and site communications.

### 7.1 EMERGENCY RECOGNITION AND PREVENTION

It is the responsibility of all personnel to monitor work at the site for potential safety hazards. All personnel are required to immediately report any unsafe conditions to the SSO. The SSO is responsible to immediately take steps to remedy any unsafe conditions observed at the work site.

The following are examples of some emergency situations that could occur during the 505 W27th Street field activities:

- Slips, trips and falls (on sloped areas, steel stairs, etc.)
- Lacerations from scrap metal (in soil, waste piles, etc.)
- The air monitoring action level is exceeded
- Entrainment of clothes or objects in moving equipment or parts
- Serious injury or illness (e.g., physical injury, heart attack)
- Severe thunderstorm with lightning.

Immediate actions will be taken by the field team under the leadership of the SSO in response to these emergencies.

### 7.2 EMERGENCY RESPONSE AND NOTIFICATION

If an emergency at the site warrants it, all personnel must immediately evacuate the affected work area and report to the SSO at the predetermined emergency assembly location:

#### **Field vehicle**

In case of injury, field personnel should take precautions to protect the victim from further harm and notify local or facility emergency services. In remote areas, it will be necessary to have first aid-trained personnel on the field team. The victim may require decontamination prior to treatment if practicable—requirements will vary based on site conditions.

Emergency medical care will be provided by:

- ☒ Local emergency medical provider (NYPD/FDNY)  
☐ Facility emergency medical provider  
☐ First aid-trained field staff (for remote areas only)

Local Resources	Name	Telephone	Notified Prior to Work (Yes/No)?
Fire	FDNY	911	No
Police	NYPD	911	No
Ambulance	FDNY	911	No
Hospital	Bellevue Hospital	(212) 562-4141	No
Site phone	N/A		
Directions to the hospital:	See attached maps.		

The SSO must confirm that the hospital listed is still in operation and that it has an emergency room. **It is required that the SSO drive to the hospital so that the directions are practiced and understood prior to initiating fieldwork.**

Corporate Resources	Name	Work Telephone	Cell Phone
Integral CHSM <sup>a</sup>	Eron Dodak	Office: (503) 943-3614	(503) 407-2933
Integral President	Lucinda Jacobs	Office: (206) 957-0328	(206) 999-3061
Integral Human Resources Manager	Amy Logan	Office: (303) 404-2944 ext. 12	NA
Medical Consultant	Dr. Calvin Jones (HealthForce Partners)	Office: (425) 806-5700	NA

**Notes:**

<sup>a</sup> If the CHSM cannot be reached, call Ian Stupakoff—Office: (360)705-3534, ext. 20; Cell: (360)259-2518. If Ian Stupakoff cannot be reached, call David Livermore—Office: (503)943-3613; Cell: (503)806-4665. If David Livermore cannot be reached, call Barbara Trenary—Office: (206) 248-9645; Cell: (206) 849-0882.

In case of serious injuries, death, or other emergency, the Integral CHSM must be notified immediately at the phone numbers listed above. The Integral CHSM will notify the project manager and Integral's president. The project manager will notify the client.

### **7.3 EMERGENCY DECONTAMINATION PROCEDURES**

In case of an emergency, if possible, gross decontamination procedures will be promptly implemented. If a life-threatening injury occurs and the injured person cannot undergo decontamination procedures onsite, then the medical facility will be informed that the injured person has not been decontaminated and given information regarding the most probable chemicals of concern. Decontamination procedures should not be implemented if there is not a reasonable possibility that the injured party requires such intervention.

Decontamination procedures will only be used if practical and if they will not further injure the person or delay treatment. Decontamination procedures should not be implemented if there is not a reasonable possibility that the injured party requires such intervention. The SSO will make the determination on whether or not to decontaminate the injured person. The following steps will be followed for decontaminating injured personnel while onsite:

- If it will not injure the person further, cut off PPE using scissors or scrub the gross contamination from the injured person's PPE (e.g., Tyvek® coveralls, work boots) with a Liquinox® or Alconox® solution followed by a rinse with tap or deionized/distilled water
- Remove PPE if feasible without further injuring the person.

### **7.4 SITE COMMUNICATIONS**

Each field team will carry a cell phone or satellite phone that is in good working order. If there is any type of emergency that requires the site to be evacuated (e.g., severe thunderstorm with lightning, chemical release), the field team leader will blow the air horn three times. When the horn sounds, all personnel will meet at the predetermined emergency assembly location (West 27<sup>th</sup> Street site entrance). All other emergency notifications that do not require evacuation (e.g., a person falling overboard) will be conducted using a cell or satellite phone. Emergency phone numbers are listed above in Section 7.2.

### **7.5 BUDDY SYSTEM**

The buddy system will be used at the site at all times. The buddy system is a system of organizing employees into field teams in such a manner that each employee of the field team is designated to be observed by at least one other employee in the field team. The purpose of the buddy system is to provide rapid assistance to employees in the event of an emergency.

## 8 WORK ZONES

Work zones are defined as follows:

<b>Contamination reduction zone</b>	Area between the exclusion and support zones that provides a transition between contaminated and clean zones
<b>Exclusion zone</b>	Any area of the site where hazardous substances are present, or are reasonably suspected to be present, and pose an exposure hazard to personnel
<b>Support zone</b>	Any area of the site, so designated, that is outside the exclusion and contamination reduction zones

Site control measures in work zones are described below for each type of field activities.

### 8.1 SOIL BORINGS AND MONITORING WELL INSTALLATION AND SOIL AND GROUNDWATER SAMPLING

**Exclusion zone:** An approximate 12-ft radius around the drill rig or sample location will be marked with orange traffic safety cones or caution tape. Only properly equipped and trained (i.e., wearing modified D protective clothing) personnel will be allowed in this area.

**Contamination reduction zone:** All decontamination activities will occur inside the exclusion zone.

**Support zone:** All areas outside the exclusion and contaminant reduction zones.

**Controls to be used to prevent entry by unauthorized persons:** No unauthorized personnel will be allowed into the exclusion/contaminant reduction zones.

### 8.2 SOIL VAPOR POINT INSTALLATION AND SOIL VAPOR SAMPLING

**Exclusion zone:** An approximate 12-ft radius around the point will be marked with orange traffic safety cones or caution tape. Only properly equipped and trained (i.e., wearing modified D protective clothing) personnel will be allowed in this area.

**Contamination reduction zone:** All decontamination activities will occur inside the exclusion zone.

**Support zone:** All areas outside the exclusion and contaminant reduction zones.

**Controls to be used to prevent entry by unauthorized persons:** No unauthorized personnel will be allowed into the exclusion/contaminant reduction zones.

## **9 EQUIPMENT DECONTAMINATION AND PERSONAL HYGIENE**

### **9.1 EQUIPMENT DECONTAMINATION PROCEDURES**

After sampling is completed, the exclusion zone will be used as the contaminant reduction zone for decontamination activities, provided there is no contamination remaining after the sampling is completed. To minimize or prevent personal exposure to hazardous materials, all personnel working in the exclusion zone and contaminant reduction zone will comply with the following decontamination procedures:

- All gloves, rain gear, and boots will be removed prior to entering the field vehicle.

Decontamination equipment required at the site includes the following:

- Buckets or tubs
- Laboratory grade distilled/deionized water
- Site water
- Scrub brushes (long-handled)
- Liquinox or Alconox detergent
- Plastic bags
- Foil
- Paper towels
- Garbage bags
- Clean garden sprayer

All non-disposable components of the sampling equipment (e.g., stainless steel spoons and bowls used for sample composting) that contact the sediment will be decontaminated using the following steps:

1. Rinse with site water/tap water
2. Wash with Alconox or Liquinox detergent
3. Rinse with site water/tap water
4. Allow to air dry
5. Wrap up composting equipment in aluminum foil.

### **9.2 PERSONAL HYGIENE**

The following personal hygiene practices will be used at the site to reduce exposure to chemicals.

- Long hair will be secured away from the face so it does not interfere with any activities.

- All personnel leaving potentially contaminated areas will wash their hands, forearms, and faces in the contaminant reduction zone prior to entering any clean areas or eating areas.
- Personnel leaving potentially contaminated areas will shower (including washing hair) and change to clean clothing as soon as possible after leaving the site.
- No person will eat, drink, or chew gum or tobacco in potentially contaminated areas. Single portion drink containers and drinking of replacement fluids for heat stress control will be permitted only in support areas.
- Smoking is prohibited by Integral personnel and subcontractors in all areas of the site because of the potential for contaminating samples and for the health of the field team.



## **10 VEHICLE SAFETY, SPILL CONTAINMENT, AND SHIPPING INSTRUCTIONS**

### **10.1 VEHICLE SAFETY**

Integral's vehicle safety program requires the following:

- Cell phone usage while driving is not allowed, including the use of hands-free devices. If it not feasible to wait to use the cell phone until arriving at your destination, pull off the road and park in a safe location to use the cell phone. Do not pull to the side of the road to use a cell phone because this significantly increases the risk of a rear-end collision.
- All vehicles are to be operated in a safe manner and in compliance with local traffic regulations and ordinances.
- Drivers are to practice defensive driving and drive in a courteous manner.
- Drivers are required to have a valid driver's license and liability insurance (per local state laws).
- Seat belts are to be worn by the driver and all passengers.
- No persons are allowed to ride in the back of any trucks or vans, unless equipped with seatbelts.
- Vehicles are to be driven in conformance with local speed limits.
- Personnel who are impaired by fatigue, illness, alcohol, illegal or prescription drugs, or who are otherwise physically unfit, are not allowed to drive or work on Integral field sites.
- Personnel are to avoid engaging in other distractions such as changing radio stations while driving.
- Motor vehicle accidents are to be reported to the responsible law enforcement agency, the Integral human resources manager, and the Integral CHSM on the same day of occurrence. Documentation of damage should be photographed.
- Personnel who have experienced work-related vehicle accidents or citations may be required to complete a defensive driving program.

### **10.2 SPILL CONTAINMENT**

No bulk chemicals will be used at the site.

### 10.3 SHIPPING INFORMATION

Federal laws and international guidelines place restrictions on what materials may be shipped by passenger and cargo aircraft. In addition, 49 CFR regulates labeling, manifesting, and shipment of all packages containing potentially hazardous materials. In the course of this field investigation, the following items will be shipped to and from the site as shown below:

1.2 Item	Hazardous Constituent	Quantity	Packaging	How Shipped
Samples	None	(various quantities) solid and liquid matrix samples	Coolers	Laboratory courier
Preservatives (groundwater VOCs)	HCL HN03	2-3 mL vials	Pre-packaged laboratory sample jars	Laboratory courier

A 24-hour emergency response number (on any shipping documents such as a Uniform Hazardous Waste Manifest, Shipper's Declaration of Dangerous Goods, etc.) is required for shipments of all dangerous or hazardous goods. Integral does not have a 24-hour emergency contact number for dangerous or hazardous goods shipment. No dangerous or hazardous goods may be shipped by Integral until an account is set up with a 24-hour emergency response service, such as CHEM-TEL (1-813-248-0573). If any hazardous or dangerous goods need to be shipped for a project, they must be shipped directly to the site by the supplier. Any hazardous or dangerous goods that are not used in the course of the field effort must remain at the site.

The samples will be prepared and labeled for shipment in accordance with the sampling and analysis plan developed for the site.

Air shipment of equipment with lithium batteries is required to note the presence of these batteries. Warning labels are available from the equipment rental agency and can be copied.

## **11 TASK-SPECIFIC SAFETY PROCEDURE SUMMARY**

### **11.1 SOIL BORINGS AND MONITORING WELL INSTALLATION**

Drilling subcontractor to contact New York one-call utility locating service 48 hours prior to initiating field work (1-800-332-2344) and obtain a utility locating ticket. Drilling subcontractor to confirm the absence of underground and overhead utilities before starting drilling activities.

Be sure that all utilities are marked or have a designation that they are not present in the area. The utility locating service should have marked all utilities present in the area. Take a few minutes to examine the locations of fire hydrants, gas meters, etc. to make sure that the utility locating marks make sense. If there is any doubt as to the location of underground utilities, call the public or a private utility locator. Finally, check for overhead utilities and obstructions such as trees.

Integral personnel will wear hard hats, safety glasses, traffic safety vests, and steel-toed boots at all times. The exclusion zone around the drill rig will be marked with orange traffic cones or caution tape and personnel will police the area to make sure no unauthorized personnel enter the exclusion zone. Avoid getting soil and sample preservatives (nitric and hydrochloric acid) on your clothes or skin. Exercise care when lifting, assembling, and decontaminating equipment. Always stay clear of the drill rig and be aware of its location. Keep in eye contact with the driller. Stay away from pinch points. Know the location of the "kill switch" on the rig. Keep equipment organized.

### **11.2 GROUNDWATER AND SOIL VAPOR SAMPLING**

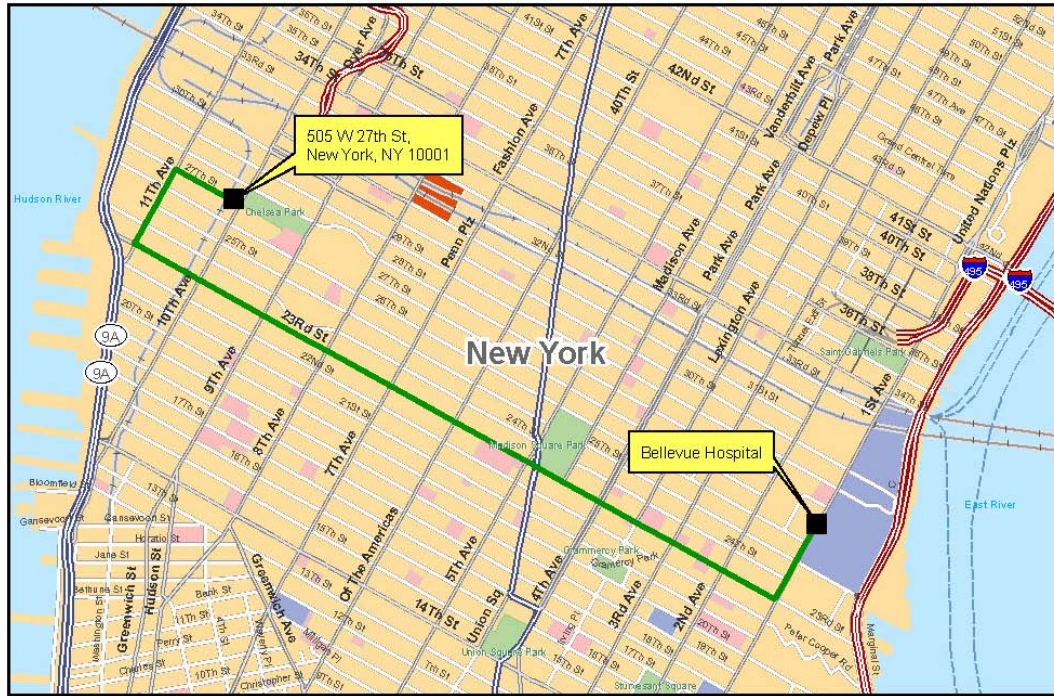
Conduct air monitoring while in the exclusion zone. Always wear nitrile gloves when touching anything in the exclusion zone. Wash hands or use hand sanitizer when hand washing facilities are not available prior to eating or drinking. Always get help when moving heavy sampling equipment or coolers. Avoid contacting the floor with your knees or any other body part during sampling activities.

## **ATTACHMENT 1**

---

### **SITE MAP AND HOSPITAL ROUTE**

Attachment 1. Site Map and Hospital Route



**Route: 505 W 27th st, New York, NY 10001 -  
Bellevue Hospital, Manhattan**

Driving time: 6 minute(s)

Driving distance: 2.3 mile(s)

1:	Start at 505 W 27th st, New York, NY 10001		
2:	Go northwest on W 27th St toward 11th Ave	0.1 mile(s)	< 1 minute
3:	Turn left on 11th Ave	0.1 mile(s)	< 1 minute
4:	At fork keep right on 11th Ave	< 0.1 mile(s)	< 1 minute
5:	Turn left on W 23rd St	1.7 mile(s)	4 minute(s) )
6:	Turn left on 1st Ave (Veterans Way)	0.2 mile(s)	< 1 minute
7:	Finish at Bellevue		

Hospital, Manhattan, on  
the right

## **ATTACHMENT 2**

---

### **REGULATORY NOTICES**

# You Have a Right to a Safe and Healthful Workplace. **IT'S THE LAW!**

- You have the right to notify your employer or OSHA about workplace hazards. You may ask OSHA to keep your name confidential.
- You have the right to request an OSHA inspection if you believe that there are unsafe and unhealthful conditions in your workplace. You or your representative may participate in the inspection.
- You can file a complaint with OSHA within 30 days of discrimination by your employer for making safety and health complaints or for exercising your rights under the *OSH Act*.
- You have a right to see OSHA citations issued to your employer. Your employer must post the citations at or near the place of the alleged violation.
- Your employer must correct workplace hazards by the date indicated on the citation and must certify that these hazards have been reduced or eliminated.
- You have the right to copies of your medical records or records of your exposure to toxic and harmful substances or conditions.
- Your employer must post this notice in your workplace.



The *Occupational Safety and Health Act of 1970 (OSH Act)*, P.L. 91-596, assures safe and healthful working conditions for working men and women throughout the Nation. The Occupational Safety and Health Administration, in the U.S. Department of Labor, has the primary responsibility for administering the *OSH Act*. The rights listed here may vary depending on the particular circumstances. To file a complaint, report an emergency, or seek OSHA advice, assistance, or products, call 1-800-321-OSHA or your nearest OSHA office: • Atlanta (404) 562-2300 • Boston (617) 565-9860 • Chicago (312) 353-2220 • Dallas (214) 767-4731 • Denver (303) 844-1600 • Kansas City (816) 426-5861 • New York (212) 337-2378 • Philadelphia (215) 861-4900 • San Francisco (415) 975-4310 • Seattle (206) 553-5930. Teletypewriter (TTY) number is 1-877-889-5627. To file a complaint online or obtain more information on OSHA federal and state programs, visit OSHA's website at [www.osha.gov](http://www.osha.gov). If your workplace is in a state operating under an OSHA-approved plan, your employer must post the required state equivalent of this poster.

## 1-800-321-OSHA

### [www.osha.gov](http://www.osha.gov)

U.S. Department of Labor  • Occupational Safety and Health Administration • OSHA 3165



## **ATTACHMENT 3**

---

### **SAFETY PROCEDURES**

## FROSTBITE

### What happens to the body:

Freezing in deep layers of skin and tissue; pale, waxy-white skin color; skin becomes hard and numb; usually affects fingers, hands, toes, feet, ears, and nose.

### What to do: (land temperatures)

- Move the person to a warm, dry area. Don't leave the person alone.
- Remove wet or tight clothing that may cut off blood flow to the affected area.
- **Do not** rub the affected area because rubbing damaged the skin and tissue.
- Gently place the affected area in a warm water bath (105°) and monitor the water temperature to **slowly** warm the tissue. Don't pour warm water directly on the affected area because it will warm the tissue too fast, causing tissue damage. Warming takes 25-40 minutes.
- After the affected area has been warmed, it may become puffy and blister. The affected area may have a burning feeling or numbness. When normal feeling, movement, and skin color have returned, the affected area should be dried and wrapped to keep it warm.  
**Note:** If there is a chance the affected area may get cold again, do not warm the skin. If the skin is warmed and then becomes cold again, it will cause severe tissue damage.
- Seek medical attention as soon as possible.

## How to Protect Workers

- Recognize the environmental and workplace conditions that lead to potential cold-induced illnesses and injuries.
- Learn the signs and symptoms of cold-induced illnesses/injuries and what to do to help the worker.
- Train workers about cold-induced illnesses and injuries.
- Select proper clothing for cold, wet, and windy conditions. Layer clothing to adjust to changing environmental temperatures. Wear a hat and gloves, in addition to underwear that will keep water away from the skin (polypropylene.)
- Take frequent short breaks in warm, dry shelters to allow the body to warm up.
- Perform work during the warmest part of the day.
- Avoid exhaustion or fatigue because energy is needed to keep muscles warm.
- Use the buddy system (work in pairs.)
- Drink warm, sweet beverages (sugar water, sports-type drinks.)  
**Avoid drinks with caffeine** (coffee, tea, or hot chocolate) **or alcohol.**
- Eat warm, high-calorie foods like hot pasta dishes.

### Workers are at increased risk when...

- They have predisposing health conditions such as cardiovascular disease, diabetes, and hypertension.
- They take certain medications. Check with your doctor, nurse, or pharmacy and ask if medicines you take affect you while working in cold environments.
- They are in poor physical condition, have a poor diet, or are older.

## HYPOTHERMIA - (Medical Emergency)

### What happens to the body:

Normal body temperature (98.6°F/37°C) drops to or below 95°F/35°C; fatigue or drowsiness; uncontrolled shivering; cool, bluish skin; slurred speech; clumsy movements; irritable, irrational, or confused behavior.

### What to do: (land temperatures)

- Call for emergency help (i.e., ambulance or 911).
- Move the person to a warm, dry area. Don't leave the person alone.
- Remove wet clothing and replace with warm, dry clothing or wrap the person in blankets.
- Have the person drink warm, sweet drinks (sugar water or sports-type drinks) if he is alert. **Avoid drinks with caffeine** (coffee, tea, or hot chocolate) **or alcohol.**
- Have the person move his arms and legs to create muscle heat. If he is unable to do this, place warm bottles or hot packs in the armpits, groin, neck, and head areas. **Do not** rub the person's body or place him in a warm water bath. This may stop his heart.

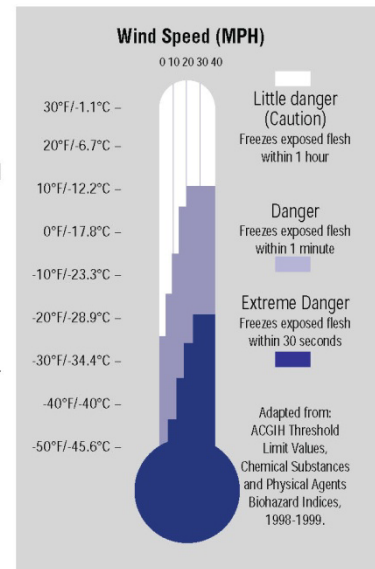
### What to do: (water temperatures)

- Call for emergency help (i.e., ambulance or 911). Body heat is lost up to 25 times faster in water.
- **Do not** remove any clothing. Button, buckle, zip, and tighten any collars, cuffs, shoes, and hoods because the layer of trapped water closest to the body provides a layer of insulation that slows the loss of heat. Keep the head out of the water and put on a hat or hood.
- Get out of the water as quickly as possible or climb on anything floating. **Do not** attempt to swim unless a floating object or another person can be reached because swimming or other physical activity uses body heat and reduces survival time by about 50 percent.
- If getting out of the water is not possible, wait quietly and conserve body heat by folding arms across the chest, keeping thighs together, bending knees, and crossing ankles. If another person is in the water, huddle together with chests held closely.

## THE COLD STRESS EQUATION

### LOW TEMPERATURE + WIND SPEED + WETNESS = INJURIES & ILLNESS

When the body is unable to warm itself, serious cold-related illnesses and injuries may occur, and permanent tissue damage and death may result. Hypothermia can occur when *land temperatures* are above freezing or *water temperatures* are below 98.6°F/37°C. Cold-related illnesses can slowly overcome a person who has been chilled by low temperatures, brisk winds, or wet clothing.



## HEAT EXHAUSTION

### What happens to the body:

Headaches, dizziness, or light-headedness, weakness, mood changes, irritability or confusion, feeling sick to your stomach, vomiting, fainting, decreased and dark-colored urine, and pale, clammy skin.

### What should be done:

- Move the person to a cool shaded area. Don't leave the person alone. If the person is dizzy or light-headed, lay him on his back and raise his legs about 6-8 inches. If the person is sick to his stomach, lay him on his side.
- Loosen and remove heavy clothing.
- Have the person drink some cool water (a small cup every 15 minutes) if he is not feeling sick to his stomach.
- Try to cool the person by fanning him. Cool the skin with a cool spray mist of water or wet cloth.
- If the person does not feel better in a few minutes call for emergency help (ambulance or call 911.)

*(If heat exhaustion is not treated, the illness may advance to heat stroke.)*

## How to Protect Workers

- Learn the signs and symptoms of heat-induced illnesses and what to do to help the worker.
- Train workers about heat-induced illnesses.
- Perform the heaviest work during the coolest part of the day.
- Slowly build up tolerance to the heat and the work activity (usually takes up to 2 weeks.)
- Use the buddy system (work in pairs.)
- Drink plenty of cool water (one small cup every 15-20 minutes.)
- Wear light, loose-fitting, breathable (like cotton) clothing.
- Take frequent short breaks in cool, shaded areas (allow your body to cool down.)
- Avoid eating large meals before working in hot environments.
- Avoid caffeine and alcoholic beverages (these beverages make the body lose water and increase the risk of heat illnesses.)

### Workers are at increased risk when...

- They take certain medications. Check with your doctor, nurse, or pharmacy to see if medicines you take affect you when working in hot environments.
- They have had a heat-induced illness in the past.
- They wear personal protective equipment.

## HEAT STROKE - A Medical Emergency

### What happens to the body:

Dry, pale skin (no sweating); hot red skin (looks like a sunburn); mood changes; irritability, confusion, and not making any sense; seizures or fits, and collapse (will not respond).

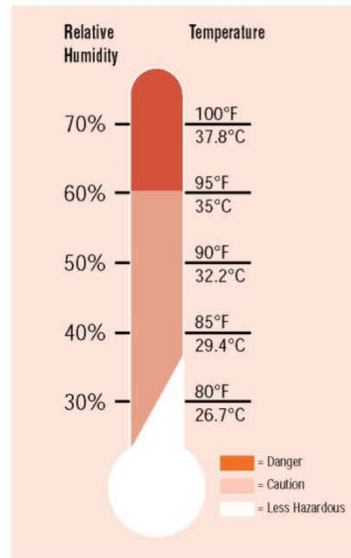
### What should be done:

- Call for emergency help (i.e., ambulance or 911.)
- Move the person to a cool, shaded area. Don't leave the person alone. Lay him on his back and if the person is having seizures, remove objects close to him so he won't hit them. If the person is sick to his stomach, lay him on his side.
- Remove heavy and outer clothing.
- Have the person drink some cool water (a small cup every 15 minutes) if he is alert enough to drink anything and not feeling sick to his stomach.
- Try to cool the person by fanning him or her. Cool the skin with a cool spray mist of water, wet cloth, or wet sheet.
- If ice is available, place ice packs in armpits and groin area.

## THE HEAT EQUATION

### HIGH TEMPERATURE + HIGH HUMIDITY + PHYSICAL WORK = HEAT ILLNESS

When the body is unable to cool itself through sweating, **serious** heat illnesses may occur. The most severe heat-induced illnesses are **heat exhaustion** and **heat stroke**. If actions are not taken to treat heat exhaustion, the illness could progress to heat stroke and **death**.



## **ATTACHMENT 4**

---

### **MATERIAL SAFETY DATA SHEETS**

## **ATTACHMENT 5**

---

### **NEAR-MISS INCIDENT REPORT**

## Near-Miss Incident Report

(completed by field staff)

Employee: \_\_\_\_\_

Office or site location: \_\_\_\_\_

Near-Miss Incident (check one or more): Exposure ( ) Physical injury ( ) Property damage ( )

Location (city and state): \_\_\_\_\_ Project and Contract No. \_\_\_\_\_

Date of incident: \_\_\_\_\_ Time of incident: \_\_\_\_\_

Fully describe the incident, including how it happened, persons involved, if chemicals were involved in the incident, etc.:

---

---

---

---

---

---

---

---

Was the operation being conducted under an established safety plan? (Yes / No)

If yes, attach a copy. If no, explain: \_\_\_\_\_

---

\_\_\_\_\_  
Employee's signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Project manager's signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Site safety officer's signature

\_\_\_\_\_  
Date

### **Corporate Health and Safety Manager Review and Comments**

Corrective action/procedure changes carried out at the site:

---

---

---

Corrective actions to be taken to prevent similar incidents at other sites:

---

---

---

---

Corporate health and safety manager's signature

---

Date

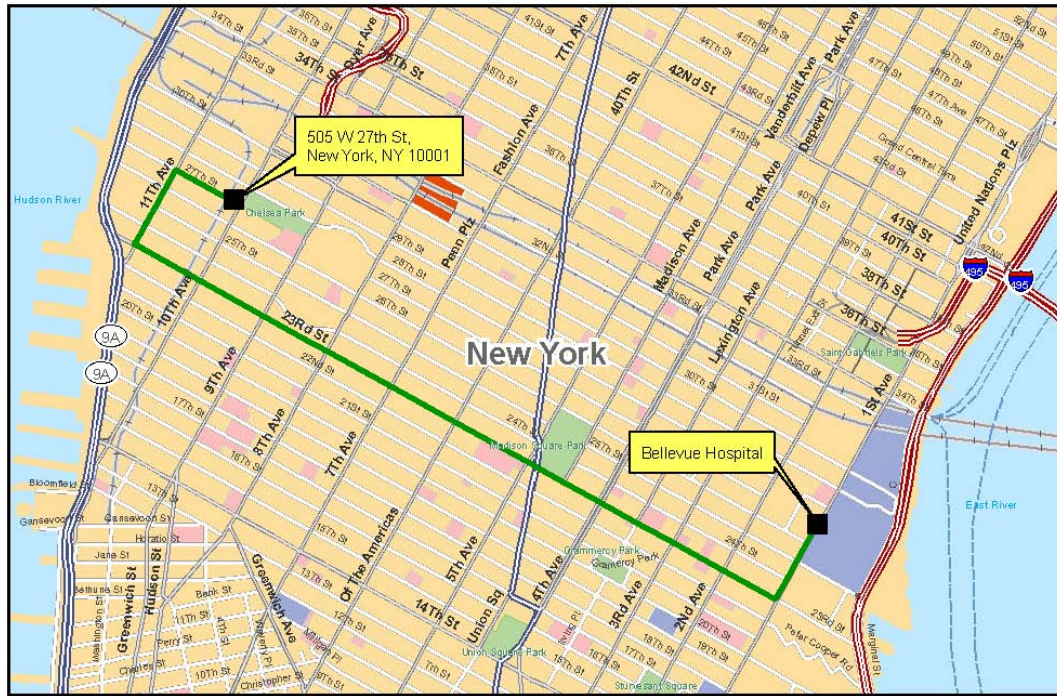
## **ATTACHMENT 1**

---

### **SITE MAP AND HOSPITAL ROUTE**



Attachment 1. Site Map and Hospital Route



**Route: 505 W 27th st, New York, NY 10001 -  
Bellevue Hospital, Manhattan**

Driving time: 6 minute(s)

Driving distance: 2.3 mile(s)

1:	Start at 505 W 27th st, New York, NY 10001		
2:	Go northwest on W 27th St toward 11th Ave	0.1 mile(s)	< 1 minute
3:	Turn left on 11th Ave	0.1 mile(s)	< 1 minute
4:	At fork keep right on 11th Ave	< 0.1 mile(s)	< 1 minute
5:	Turn left on W 23rd St	1.7 mile(s)	4 minute(s) )
6:	Turn left on 1st Ave (Veterans Way)	0.2 mile(s)	< 1 minute
7:	Finish at Bellevue		

Hospital, Manhattan, on  
the right

## **ATTACHMENT 2**

---

### **REGULATORY NOTICES**

# You Have a Right to a Safe and Healthful Workplace. **IT'S THE LAW!**

- You have the right to notify your employer or OSHA about workplace hazards. You may ask OSHA to keep your name confidential.
- You have the right to request an OSHA inspection if you believe that there are unsafe and unhealthful conditions in your workplace. You or your representative may participate in the inspection.
- You can file a complaint with OSHA within 30 days of discrimination by your employer for making safety and health complaints or for exercising your rights under the *OSH Act*.
- You have a right to see OSHA citations issued to your employer. Your employer must post the citations at or near the place of the alleged violation.
- Your employer must correct workplace hazards by the date indicated on the citation and must certify that these hazards have been reduced or eliminated.
- You have the right to copies of your medical records or records of your exposure to toxic and harmful substances or conditions.
- Your employer must post this notice in your workplace.



The *Occupational Safety and Health Act of 1970 (OSH Act)*, P.L. 91-596, assures safe and healthful working conditions for working men and women throughout the Nation. The Occupational Safety and Health Administration, in the U.S. Department of Labor, has the primary responsibility for administering the *OSH Act*. The rights listed here may vary depending on the particular circumstances. To file a complaint, report an emergency, or seek OSHA advice, assistance, or products, call 1-800-321-OSHA or your nearest OSHA office: • Atlanta (404) 562-2300 • Boston (617) 565-9860 • Chicago (312) 353-2220 • Dallas (214) 767-4731 • Denver (303) 844-1600 • Kansas City (816) 426-5861 • New York (212) 337-2378 • Philadelphia (215) 861-4900 • San Francisco (415) 975-4310 • Seattle (206) 553-5930. Teletypewriter (TTY) number is 1-877-889-5627. To file a complaint online or obtain more information on OSHA federal and state programs, visit OSHA's website at [www.osha.gov](http://www.osha.gov). If your workplace is in a state operating under an OSHA-approved plan, your employer must post the required state equivalent of this poster.

## 1-800-321-OSHA

## [www.osha.gov](http://www.osha.gov)

U.S. Department of Labor  • Occupational Safety and Health Administration • OSHA 3165

## **ATTACHMENT 3**

---

### **SAFETY PROCEDURES**



## FROSTBITE

### What happens to the body:

Freezing in deep layers of skin and tissue; pale, waxy-white skin color; skin becomes hard and numb; usually affects fingers, hands, toes, feet, ears, and nose.

### What to do: (land temperatures)

- Move the person to a warm, dry area. Don't leave the person alone.
- Remove wet or tight clothing that may cut off blood flow to the affected area.
- **Do not** rub the affected area because rubbing damaged the skin and tissue.
- Gently place the affected area in a warm water bath (105°) and monitor the water temperature to **slowly** warm the tissue. Don't pour warm water directly on the affected area because it will warm the tissue too fast, causing tissue damage. Warming takes 25-40 minutes.
- After the affected area has been warmed, it may become puffy and blister. The affected area may have a burning feeling or numbness. When normal feeling, movement, and skin color have returned, the affected area should be dried and wrapped to keep it warm.  
**Note:** If there is a chance the affected area may get cold again, do not warm the skin. If the skin is warmed and then becomes cold again, it will cause severe tissue damage.
- Seek medical attention as soon as possible.

## How to Protect Workers

- Recognize the environmental and workplace conditions that lead to potential cold-induced illnesses and injuries.
- Learn the signs and symptoms of cold-induced illnesses/injuries and what to do to help the worker.
- Train workers about cold-induced illnesses and injuries.
- Select proper clothing for cold, wet, and windy conditions. Layer clothing to adjust to changing environmental temperatures. Wear a hat and gloves, in addition to underwear that will keep water away from the skin (polypropylene.)
- Take frequent short breaks in warm, dry shelters to allow the body to warm up.
- Perform work during the warmest part of the day.
- Avoid exhaustion or fatigue because energy is needed to keep muscles warm.
- Use the buddy system (work in pairs.)
- Drink warm, sweet beverages (sugar water, sports-type drinks.)  
**Avoid drinks with caffeine** (coffee, tea, or hot chocolate) **or alcohol.**
- Eat warm, high-calorie foods like hot pasta dishes.

### Workers are at increased risk when...

- They have predisposing health conditions such as cardiovascular disease, diabetes, and hypertension.
- They take certain medications. Check with your doctor, nurse, or pharmacy and ask if medicines you take affect you while working in cold environments.
- They are in poor physical condition, have a poor diet, or are older.

## HYPOTHERMIA - (Medical Emergency)

### What happens to the body:

Normal body temperature (98.6°F/37°C) drops to or below 95°F/35°C; fatigue or drowsiness; uncontrolled shivering; cool, bluish skin; slurred speech; clumsy movements; irritable, irrational, or confused behavior.

### What to do: (land temperatures)

- Call for emergency help (i.e., ambulance or 911).
- Move the person to a warm, dry area. Don't leave the person alone.
- Remove wet clothing and replace with warm, dry clothing or wrap the person in blankets.
- Have the person drink warm, sweet drinks (sugar water or sports-type drinks) if he is alert. **Avoid drinks with caffeine** (coffee, tea, or hot chocolate) **or alcohol.**
- Have the person move his arms and legs to create muscle heat. If he is unable to do this, place warm bottles or hot packs in the armpits, groin, neck, and head areas. **Do not** rub the person's body or place him in a warm water bath. This may stop his heart.

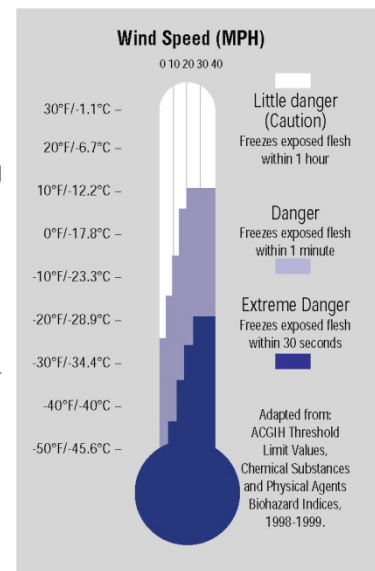
### What to do: (water temperatures)

- Call for emergency help (i.e., ambulance or 911). Body heat is lost up to 25 times faster in water.
- **Do not** remove any clothing. Button, buckle, zip, and tighten any collars, cuffs, shoes, and hoods because the layer of trapped water closest to the body provides a layer of insulation that slows the loss of heat. Keep the head out of the water and put on a hat or hood.
- Get out of the water as quickly as possible or climb on anything floating. **Do not** attempt to swim unless a floating object or another person can be reached because swimming or other physical activity uses body heat and reduces survival time by about 50 percent.
- If getting out of the water is not possible, wait quietly and conserve body heat by folding arms across the chest, keeping thighs together, bending knees, and crossing ankles. If another person is in the water, huddle together with chests held closely.

## THE COLD STRESS EQUATION

### LOW TEMPERATURE + WIND SPEED + WETNESS = INJURIES & ILLNESS

When the body is unable to warm itself, serious cold-related illnesses and injuries may occur, and permanent tissue damage and death may result. Hypothermia can occur when *land temperatures* are above freezing or *water temperatures* are below 98.6°F/37°C. Cold-related illnesses can slowly overcome a person who has been chilled by low temperatures, brisk winds, or wet clothing.



## HEAT EXHAUSTION

### What happens to the body:

Headaches, dizziness, or light-headedness, weakness, mood changes, irritability or confusion, feeling sick to your stomach, vomiting, fainting, decreased and dark-colored urine, and pale, clammy skin.

### What should be done:

- Move the person to a cool shaded area. Don't leave the person alone. If the person is dizzy or light-headed, lay him on his back and raise his legs about 6-8 inches. If the person is sick to his stomach, lay him on his side.
- Loosen and remove heavy clothing.
- Have the person drink some cool water (a small cup every 15 minutes) if he is not feeling sick to his stomach.
- Try to cool the person by fanning him. Cool the skin with a cool spray mist of water or wet cloth.
- If the person does not feel better in a few minutes call for emergency help (ambulance or call 911.)

*(If heat exhaustion is not treated, the illness may advance to heat stroke.)*

## How to Protect Workers

- Learn the signs and symptoms of heat-induced illnesses and what to do to help the worker.
- Train workers about heat-induced illnesses.
- Perform the heaviest work during the coolest part of the day.
- Slowly build up tolerance to the heat and the work activity (usually takes up to 2 weeks.)
- Use the buddy system (work in pairs.)
- Drink plenty of cool water (one small cup every 15-20 minutes.)
- Wear light, loose-fitting, breathable (like cotton) clothing.
- Take frequent short breaks in cool, shaded areas (allow your body to cool down.)
- Avoid eating large meals before working in hot environments.
- Avoid caffeine and alcoholic beverages (these beverages make the body lose water and increase the risk of heat illnesses.)

### Workers are at increased risk when...

- They take certain medications. Check with your doctor, nurse, or pharmacy to see if medicines you take affect you when working in hot environments.
- They have had a heat-induced illness in the past.
- They wear personal protective equipment.

## HEAT STROKE - A Medical Emergency

### What happens to the body:

Dry, pale skin (no sweating); hot red skin (looks like a sunburn); mood changes; irritability, confusion, and not making any sense; seizures or fits, and collapse (will not respond).

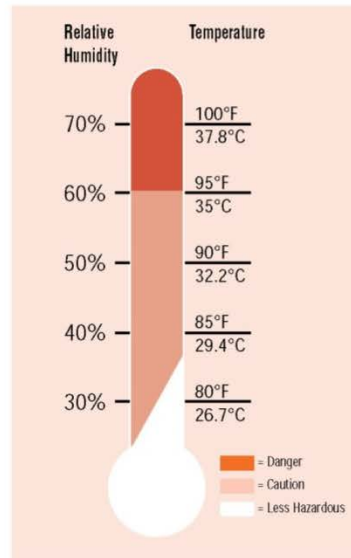
### What should be done:

- Call for emergency help (i.e., ambulance or 911.)
- Move the person to a cool, shaded area. Don't leave the person alone. Lay him on his back and if the person is having seizures, remove objects close to him so he won't hit them. If the person is sick to his stomach, lay him on his side.
- Remove heavy and outer clothing.
- Have the person drink some cool water (a small cup every 15 minutes) if he is alert enough to drink anything and not feeling sick to his stomach.
- Try to cool the person by fanning him or her. Cool the skin with a cool spray mist of water, wet cloth, or wet sheet.
- If ice is available, place ice packs in armpits and groin area.

## THE HEAT EQUATION

### HIGH TEMPERATURE + HIGH HUMIDITY + PHYSICAL WORK = HEAT ILLNESS

When the body is unable to cool itself through sweating, **serious** heat illnesses may occur. The most severe heat-induced illnesses are **heat exhaustion** and **heat stroke**. If actions are not taken to treat heat exhaustion, the illness could progress to heat stroke and **death**.



## **ATTACHMENT 4**

---

### **MATERIAL SAFETY DATA SHEETS**



ALDRICH CHEMICAL CO INC. -- LIQUI-NOX PHOSPHATE-FREE DETERGENT, 24302-7 --  
6810-00N016648

===== Product Identification =====

Product ID:LIQUI-NOX PHOSPHATE-FREE DETERGENT, 24302-7

MSDS Date:01/09/1990

FSC:6810

NIIN:00N016648

MSDS Number: BQTFQ

=== Responsible Party ===

Company Name:ALDRICH CHEMICAL CO INC.

Address:1001 W. ST. PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53201

Country:US

Info Phone Num:414-273-3850/FAX -4979

Emergency Phone Num:414-273-3850

CAGE:60928

=== Contractor Identification ===

Company Name:ALDRICH CHEMICAL CO INC

Address:1001 WEST ST PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53233

Country:US

Phone:414-273-3850

CAGE:60928

===== Composition/Information on Ingredients =====

Ingred Name:LIQUI-NOX, PHOSPHATE-FREE DETERGENT

===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:EYE: IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MIN. SKIN: IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER. INHAL: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ART F RESP. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE. INGEST: GET MD IMMEDIATELY .

===== Fire Fighting Measures =====

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT TO PREVENT CONTACT WITH SKIN AND EYES.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR NIOSH/MSHA APPROVED RESP, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES. ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE. AVOID INHALATION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR.

Ventilation:MECHANICAL EXHAUST REQUIRED.

Protective Gloves:COMPATIBLE CHEMICAL-RESISTANT GLOVES.

Eye Protection:CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:SAFETY SHOWER AND EYE BATH.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

WASTE DISP: AND NEUTRALIZATION REACTIONS MAY GENRATE HEAT & FUMES WHICH CAN BE CONTROLLED BY THE RATE OF ADDITION. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS.

===== Physical/Chemical Properties =====

HCC:N1

Spec Gravity:1.051

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.

===== Disposal Considerations =====

Waste Disposal Methods:SML QTYS: CAUTIOUSLY ADD TO A LRG STIRRED EXCESS OF WATER. ADJUST THE PH TO NEUTRAL, SEPARATE ANY INSOLUBLE SOLIDS OR LIQUIDS & PACKAGE THEM FOR HAZARDOUS-WASTE DISP. FLUSH THE AQUEOUS SOLN DOWN THE DRAIN W/PLENTY OF WATER. THE HYDROLYSIS (SUPP DATA)

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department

of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.



# Material Safety Data Sheet

## Nitric Acid

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Nitric Acid

**Synonyms/Generic Names:** Aqua Fortis, Azotic acid, Hydrogen nitrate.

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer:** Columbus Chemical Industries, Inc.  
N4335 Temkin Rd. Columbus, WI. 53925

**For More Information Call:** 920-623-2140  
(Monday – Friday 8:00-4:30)

**IN CASE OF EMERGENCY CALL:** CHEMTREC  
(24 Hours/Day, 7 Days/Week) 800-424-9300

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight %	Component	CAS #	EINECS# / ELINCS#	Classification*
68 - 70%	Nitric Acid	7697-37-2	231-714-2	O; R8 -C; R35, **

\*Symbol and R phrase according to EC Annex1

\*\* Subject to the reporting requirements of SARA Title III Section 313

### 3. HAZARDS IDENTIFICATION

Clear, colorless to yellow solution with caustic odor.



R35 – Causes severe burns.

R8 – Contact with combustible material may cause fire.

S1/2, S23, S26, S36, S45

**Routes of Entry:** Skin, eyes, inhalation and ingestion.

**Ingredients found on carcinogen lists:**

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>	<u>ACGIH</u>
Nitric Acid	Not Listed	Not Listed	Not Listed	Not Listed

---

## 4. FIRST AID INFORMATION

---

**Inhalation:** Inhalation of mists can cause corrosive action on mucous membranes. Symptoms include burning, choking, coughing, wheezing, laryngitis, shortness of breath, headache or nausea. Move casualty to fresh air and keep at rest. May be fatal if inhaled, may cause delayed pulmonary edema. Get medical attention.

**Eyes:** Contact rapidly causes severe damage. Symptoms include eye burns, watering eyes. Permanent damage to cornea may result. In case of eye contact, rinse with plenty of water and seek medical attention immediately.

**Skin:** Severe and rapid corrosion from contact. Extent of damage depends on duration of contact. Symptoms include burning, itching, redness, inflammation and/or swelling of exposed tissues. harmful if absorbed through skin. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.

**Ingestion: Do Not Induce Vomiting!** Severe and rapid corrosive burns of the mouth, gullet and gastrointestinal tract will result if swallowed. Symptoms include burning, choking, nausea, vomiting and severe pain. Wash out mouth with water and give a glass of water or milk. Get medical attention immediately.

---

## 5. FIRE-FIGHTING MEASURES

---

### FLAMMABLE PROPERTIES:

<b>Flash Point:</b>	Not Flammable
<b>Flash Point method:</b>	Not Applicable
<b>Autoignition Temperature:</b>	Not Applicable
<b>Upper Flame Limit (volume % in air):</b>	Not Applicable
<b>Lower Flame Limit (volume % in air):</b>	Not Applicable

**Extinguishing Media:** Product is not flammable. Use appropriate media for adjacent fire. Use flooding quantities of water to cool containers, keep away from common metals.

**Special fire-fighting procedures:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Material can react violently with water (spattering and misting) and react with metals to produce flammable hydrogen gas.

**Hazardous combustion products:** Emits toxic fumes under fire conditions. (See also Stability and Reactivity section).

**Unusual fire and explosion hazards:** Strong Oxidizer! Contact with organic material may cause fire. Material will react with metals to produce flammable hydrogen gas.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

**Personal precautions:** See section 8 for recommendations on the use of personal protective equipment.

**Environmental precautions:** Cleanup personnel need personal protection from inhalation and skin/eye contact. Evacuate and ventilate the area. Prevent spillage from entering drains. Cautiously add water to spill, taking care to avoid splashing and spattering. Neutralize diluted spill with soda ash or lime. Absorb neutralized spill with vermiculite or other inert absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Any release to the environment may be subject to federal/national or local reporting requirements. Dispose of all waste or cleanup materials in accordance with local regulations. Containers, even when empty, will retain residue and vapors.

---

## 7. HANDLING AND STORAGE

---

**Normal handling:** See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

**Storage:** Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities). Drains for storage or use areas for this material should have retention basins for pH adjustment and dilution of spills.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

**Occupational exposure controls:** (consult local authorities for acceptable exposure limits)

<u>Chemical name</u>	<u>Regulatory List</u>	<u>Value and type</u>
Nitric Acid	UK OES	5 mg/m <sup>3</sup> TWA
	STEL	10 mg/m <sup>3</sup> (10 minutes)
	USA OSHA PEL	5 mg/m <sup>3</sup> TWA
	STEL	10 mg/m <sup>3</sup> (15 minutes)
	USA ACGIH	5 mg/m <sup>3</sup> TLV
	USA NIOSH	5 mg/m <sup>3</sup> REL
	STEL	10 mg/m <sup>3</sup> (15 minutes)
	USA OSHA - IDLH	25 ppm
	VME France	5 mg/m <sup>3</sup> TWA 8 hr
	VLE France (STEL)	10 mg/m <sup>3</sup> (15 minutes)

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

STEL: Short Term Exposure Limit during x number of minutes.

IDLH: Immediately Dangerous to Life or Health

**Ventilation:** Provide local exhaust, preferably mechanical.

**Respiratory protection:** If necessary use an approved respirator with acid vapor cartridges.

**Eye protection:** Wear chemical safety glasses with a face shield for splash protection.

**Skin and body protection:** Wear neoprene or rubber gloves, apron and other protective clothing appropriate to the risk of exposure.

**Other Recommendations:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

Appearance:	Clear, colorless to slight brown liquid
Physical state:	Liquid
Odor:	Acrid, suffocating odor
Odor Threshold:	Unknown
Specific Gravity:	1.4200
pH:	1
Melting Point/Freezing Point:	-42°C (-44°F)
Boiling Point/Range:	122°C (252°F)
Flammability:	Not Flammable (See section 5)
Flash point:	Not Flammable (See section 5)
Evaporation Rate (Butyl Acetate =1):	Not Available
Explosive Limits:	Not Explosive (See section 5)
Vapor Pressure (at 25°C):	10 mmHg
Vapor Density (air =1):	2.5
Solubility:	Completely soluble in water
Partition coefficient/n-octanol/water:	-2.3 @ 25 °C
% Volatile:	Not Available
Autoignition Temperature:	See section 5

---

## 10. STABILITY AND REACTIVITY

---

**Stability:** Stable

**Conditions to avoid:** Uncontrolled addition of water, contact with combustible materials.

**Incompatibility:** Moisture, bases, organic material, metals, hydrogen sulfide, carbides, alcohols, organic solvents, carbides, cyanides, sulfides.

**Hazardous decomposition products:** Oxides of nitrogen.

**Hazardous polymerization:** Will not occur.

---

## 11. TOXICOLOGICAL INFORMATION

---

**Acute Effects:** See section 4 for symptoms of exposure and effects. Likely routes of exposure are skin, eyes and inhalation.

**Target organs:** Teeth, eyes, skin, respiratory system.

**Acute Toxicity Data:**

Nitric acid	LC <sub>50</sub> (rat): 0.8 mg/L
-------------	----------------------------------

**Chronic Effects:** Not Available

**Teratogenicity:** None found

**Mutagenicity:** None found

**Embryotoxicity:** None found

**Synergistic Products/Effects:** Not Available

---

## 12. ECOLOGICAL INFORMATION

---

**Ecotoxicity (aquatic and terrestrial):** Aquatic fish; LC50 (96 hrs): 72 mg/l (Gambusia affinis)

**Persistence and Degradability:** Not Available

**Bioaccumulative Potential:** Not Available

**Mobility in Soil:** Not Available

**Other Adverse Effects:** Not Available

---

## 13. DISPOSAL CONSIDERATIONS

---

**RCRA:**

Hazardous waste? Yes      RCRA ID number: DOO2

**Waste Residues:** Carefully dilute with water, neutralize per spill procedures in section 6. Neutralized material may be flushed to sewer (REGULATIONS PERMITTING!) or disposed of through a licensed contractor. Users should review their operations in terms of the applicable federal/nation or local regulations and consult with appropriate regulatory agencies before discharging or disposing of waste material.

**Product containers:** Containers, if thoroughly cleaned, preferably by rinsing three times and handling the rinse water as waste residues, may be disposed of or recycled as non-hazardous waste. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies before discharging or disposing of waste material.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

---

## 14. TRANSPORTATION INFORMATION

---

**DOT:** UN2031, Nitric Acid, 8, pg II

**TDG:** UN2031, Nitric Acid, 8, pg II

**PIN:** Not Available

**IDMG:** UN2031, Nitric Acid, 8, pg II

**Marine Pollutant:** No

**IATA/ICAO:** UN2031, Nitric Acid, 8, pg II



RID/ADR: Class 8, Item 2(b), corrosive

---

## 15. REGULATORY INFORMATION

---

**TSCA Inventory Status:** All ingredients are listed on the TSCA inventory.

**Federal and State Regulations:**

Pennsylvania RTK: Nitric Acid

Massachusetts RTK: Nitric Acid

SARA 302/304/311/312 extremely hazardous substances: Nitric Acid

SARA 313 toxic chemical notification and release reporting: Nitric Acid

CERCLA: Hazardous Substances: Nitric Acid 1000 lbs

**California Proposition 65:**

No.

**WHMIS Canada:**

Class E - corrosive liquid.

**DSCL (EEC):**

R35 – Causes severe burns, R8 - Contact with combustible material may cause fire.

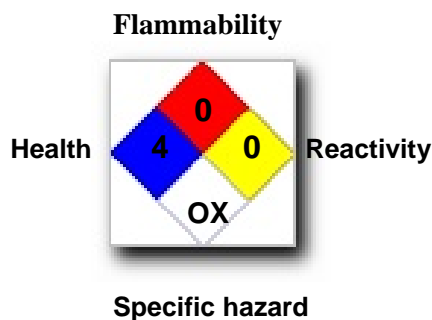
---

**HMIS (U.S.A.)**

Health Hazard	3
Fire Hazard	0
Reactivity	2

**National Fire  
Protection**

**Association (U.S.A.)**



---

**Protective Equipment:**



---

**ADR (Europe):**



---

**TDG (Canada):**



---

**DSCL (Europe):**



---

## 1. OTHER INFORMATION

---

**Current Issue Date:** November 30, 2005

**Previous Issue Date:** N/A

**Prepared by:** Sherry Brock (920) 623-2140

Disclaimer: Columbus Chemical Industries, Inc. ("Columbus") believes that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because Columbus has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. COLUMBUS MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.

# Material Safety Data Sheet

## Hydrochloric Acid, 1:1 Aqueous Solution

ACC# 95574

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Hydrochloric Acid, 1:1 Aqueous Solution**Catalog Numbers:** M-043, M043, MCC-030298**Synonyms:** Muriatic acid; Chlorohydric acid; Hydrogen chloride; Spirits of salt**Company Identification:**

Fisher Scientific  
1 Reagent Lane  
Fair Lawn, NJ 07410

**For information, call:** 201-796-7100**Emergency Number:** 201-796-7100**For CHEMTREC assistance, call:** 800-424-9300**For International CHEMTREC assistance, call:** 703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7647-01-0	Hydrochloric acid	< 20	231-595-7
7732-18-5	Water	Balance	231-791-2

**Hazard Symbols:** T C**Risk Phrases:** 23 35

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: colorless to slight yellow clear liquid. **Danger!** Corrosive. Causes eye and skin burns. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns. May cause fetal effects based upon animal studies. Possible sensitizer.

**Target Organs:** Respiratory system, teeth, eyes, skin, circulatory system.

#### Potential Health Effects

**Eye:** May cause irreversible eye injury. Vapor or mist may cause irritation and severe burns. Contact with liquid is corrosive to the eyes and causes severe burns. May cause painful sensitization to light.

**Skin:** May be absorbed through the skin in harmful amounts. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Contact with liquid is corrosive and causes severe burns and ulceration.

**Ingestion:** May cause circulatory system failure. Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

**Inhalation:** May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract. Exposure to the mist and vapor may erode exposed teeth. Causes corrosive action on the mucous membranes.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis. Repeated exposure may cause erosion of teeth. May cause fetal effects. Laboratory experiments have resulted in mutagenic effects. Prolonged exposure may cause conjunctivitis, photosensitization, and possible blindness.

## Section 4 - First Aid Measures

**Eyes:** Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes). **SPEEDY ACTION IS CRITICAL!**

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Give milk of magnesia.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Notes to Physician:** Do NOT use sodium bicarbonate in an attempt to neutralize the acid.

**Antidote:** Do NOT use oils or ointments in eye.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Not flammable, but reacts with most metals to form flammable hydrogen gas. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Reaction with water may generate much heat which will increase the concentration of fumes in the air. Containers may explode when heated.

**Extinguishing Media:** For large fires, use water spray, fog, or alcohol-resistant foam. Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers. Do NOT use straight streams of water. Most foams will react with the material and release corrosive/toxic gases. Cool containers with flooding quantities of water until well after fire is out. For small fires, use carbon dioxide (except for cyanides), dry chemical, dry sand, and alcohol-resistant foam.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 3; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Large spills may be neutralized with dilute alkaline solutions of soda ash (sodium carbonate,  $\text{Na}_2\text{CO}_3$ ), or lime (calcium oxide,  $\text{CaO}$ ). Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation. Do not get water inside containers. A vapor suppressing foam may be used to reduce vapors. Cover with dry earth, dry sand, or other non-combustible material followed with plastic sheet to minimize spreading and contact with water.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Contents may develop pressure upon prolonged storage. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Discard contaminated shoes. Use caution when opening. Keep from contact with moist air and steam.

**Storage:** Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area. Do not store in metal containers. Do not store near flammable or oxidizing substances (especially nitric acid or chlorates).

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Hydrochloric acid	2 ppm Ceiling	50 ppm IDLH	5 ppm Ceiling; 7 mg/m <sup>3</sup> Ceiling
Water	none listed	none listed	none listed

**OSHA Vacated PELs:** Hydrochloric acid: No OSHA Vacated PELs are listed for this chemical.

Water: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear neoprene or polyvinyl chloride gloves to prevent exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid

**Appearance:** colorless to slight yellow  
**Odor:** strong, pungent  
**pH:** 0.01  
**Vapor Pressure:** 5.7 mm Hg @ 0 deg C  
**Vapor Density:** 1.26  
**Evaporation Rate:** > 1.00 (N-butyl acetate)  
**Viscosity:** Not available.  
**Boiling Point:** 81.5-110 deg C @ 760 mmHg  
**Freezing/Melting Point:** -74 deg C  
**Decomposition Temperature:** Not available.  
**Solubility:** Miscible.  
**Specific Gravity/Density:** 1.0-1.2  
**Molecular Formula:** HCl.H<sub>2</sub>O  
**Molecular Weight:** 36.46

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Mechanical shock, incompatible materials, metals, excess heat, exposure to moist air or water, bases.

**Incompatibilities with Other Materials:** Bases, acetic anhydride, alkali metals, aluminum, amines, copper, copper alloys, fluorine, iron, sodium hydroxide, steel, sulfuric acid, vinyl acetate, zinc, potassium permanganate, cesium acetylene carbide, rubidium acetylene carbide, rubidium carbide, sodium, chlorosulfonic acid, oleum, carbonates, perchloric acid, calcium phosphide, metal oxides, acetates, cesium carbide, beta-propiolactone, ethyleneimine, propylene oxide, lithium silicides, alcohols + hydrogen cyanide, 2-aminoethanol, ammonium hydroxide, calcium carbide, 1,1-difluoroethylene, ethylene diamine, magnesium boride, mercuric sulfate, silver perchlorate + carbon tetrachloride, uranium phosphide.

**Hazardous Decomposition Products:** Hydrogen chloride, chlorine, carbon monoxide, carbon dioxide, hydrogen gas.

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 7647-01-0: MW4025000; MW4031000

**CAS#** 7732-18-5: ZC0110000

**LD50/LC50:**

**CAS#** 7647-01-0:

Inhalation, mouse: LC50 = 1108 ppm/1H;

Inhalation, mouse: LC50 = 8300 mg/m<sup>3</sup>/30M;

Inhalation, rat: LC50 = 3124 ppm/1H;

Inhalation, rat: LC50 = 45000 mg/m<sup>3</sup>/5M;

Inhalation, rat: LC50 = 8300 mg/m<sup>3</sup>/30M;

Oral, rabbit: LD50 = 900 mg/kg;

**CAS#** 7732-18-5:

Oral, rat: LD50 = >90 mL/kg;

**Carcinogenicity:**

**CAS#** 7647-01-0:

**ACGIH:** A4 - Not Classifiable as a Human Carcinogen

**IARC:** IARC Group 3 - not classifiable CAS# 7732-18-5: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** Experimental reproductive effects have been reported.

**Teratogenicity:** Embryo or Fetus: Stunted fetus, Inhalation, rat TCL0=450 mg/m<sup>3</sup>/1H Specific Developmental Abnormalities: homeostatis, Inhalation, rat TCL0=450 mg/m<sup>3</sup>/1H (female 1 days pre-mating).

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

**Mutagenicity:** Cytogenetic analysis: Hamster, lung = 30 mmol/L.; Cytogenetic analysis: Hamster, ovary = 8 mmol/L.

**Other Studies:** No data available.

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: Bluegill/Sunfish: 3.6 mg/L; 48Hr; Lethal (unspecified) Bluegill/Sunfish: LC50; 96 Hr; pH 3.0-3.5 No data available.

**Environmental:** Rapidly hydrolyzes when exposed to water. Will exhibit extensive evaporation from soil surfaces. Upon transport through the soil, hydrochloric acid will dissolve some of the soil materials (especially those with carbonate bases) and the acid will neutralize to some degree.

**Physical:** No information available.

**Other:** No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
<b>Shipping Name:</b>	No information available.				No information available.
<b>Hazard Class:</b>					
<b>UN Number:</b>					
<b>Packing Group:</b>					

## Section 15 - Regulatory Information

### US FEDERAL

### TSCA

CAS# 7647-01-0 is listed on the TSCA inventory.

CAS# 7732-18-5 is listed on the TSCA inventory.

### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

### **Section 12b**

None of the chemicals are listed under TSCA Section 12b.

### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

### **SARA**

### **CERCLA Hazardous Substances and corresponding RQs**

CAS# 7647-01-0: 5000 lb final RQ; 2270 kg final RQ

### **SARA Section 302 Extremely Hazardous Substances**

CAS# 7647-01-0: 500 lb TPQ

### **SARA Codes**

CAS # 7647-01-0: acute.

### **Section 313**

This material contains Hydrochloric acid (CAS# 7647-01-0, 20%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

### **Clean Air Act:**

CAS# 7647-01-0 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

### **Clean Water Act:**

CAS# 7647-01-0 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

### **OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

### **STATE**

CAS# 7647-01-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

## **European/International Regulations**

### **European Labeling in Accordance with EC Directives**

#### **Hazard Symbols:**

T C

#### **Risk Phrases:**

R 23 Toxic by inhalation.

R 35 Causes severe burns.

#### **Safety Phrases:**

S 1/2 Keep locked up and out of reach of children.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 9 Keep container in a well-ventilated place.



**WGK (Water Danger/Protection)**

CAS# 7647-01-0: 1

CAS# 7732-18-5: No information available.

**Canada - DSL/NDSL**

CAS# 7647-01-0 is listed on Canada's DSL List.

CAS# 7732-18-5 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D2A, E.

**Canadian Ingredient Disclosure List**

CAS# 7647-01-0 is listed on the Canadian Ingredient Disclosure List.

**Exposure Limits**

CAS# 7647-01-0: OEL-AUSTRALIA:TWA 5 ppm (7 mg/m<sup>3</sup>) OEL-AUSTRIA:TWA 5 ppm (7 mg/m<sup>3</sup>) OEL-BELGIUM:STEL 5 ppm (7.7 mg/m<sup>3</sup>) OEL-DENMARK:STEL 5 ppm (7 mg/m<sup>3</sup>) OEL-FINLAND:STEL 5 ppm (7 mg/m<sup>3</sup>); Skin OEL-FRANCE:STEL 5 ppm (7.5 mg/m<sup>3</sup>) OEL-GERMANY:TWA 5 ppm (7 mg/m<sup>3</sup>) OEL-HUNGARY:STEL 5 mg/m<sup>3</sup> OEL-JAPAN:STEL 5 ppm (7.5 mg/m<sup>3</sup>) OEL-THE NETHERLANDS:TWA 5 ppm (7 mg/m<sup>3</sup>) OEL-THE PHILIPPINES:TWA 5 ppm (7 mg/m<sup>3</sup>) OEL-POLAND:TWA 5 mg/m<sup>3</sup> OEL-RUSSIA:STEL 5 ppm (5 mg/m<sup>3</sup>) OEL-SWEDEN:STEL 5 ppm (8 mg/m<sup>3</sup>) OEL-SWITZERLAND:TWA 5 ppm (7.5 mg/m<sup>3</sup>);STEL 10 ppm (15 mg/m<sup>3</sup>) OEL -THAILAND:TWA 5 ppm (7 mg/m<sup>3</sup>) OEL-TURKEY:TWA 5 ppm (7 mg/m<sup>3</sup>) OEL-UNITED KINGDOM:TWA 5 ppm (7 mg/m<sup>3</sup>);STEL 5 ppm (7 mg/m<sup>3</sup>) OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

## Section 16 - Additional Information

**MSDS Creation Date:** 7/06/1999**Revision #3 Date:** 3/18/2003

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*

## ALCONOX MSDS

### Section 1 : MANUFACTURER INFORMATION

**Product name:** Alconox

**Supplier:** Same as manufacturer.

**Manufacturer:** Alconox, Inc.  
30 Glenn St.  
Suite 309  
White Plains, NY 10603.

**Manufacturer emergency** 800-255-3924.

**phone number:** 813-248-0585 (outside of the United States).

**Manufacturer:** Alconox, Inc.  
30 Glenn St.  
Suite 309  
White Plains, NY 10603.

**Supplier MSDS date:** 2005/03/09

**D.O.T. Classification:** Not regulated.

### Section 2 : HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
25155-30-0	10-30	SODIUM DODECYLBENZENESULFONATE	NOT AVAILABLE	438 MG/KG RAT ORAL 1330 MG/KG MOUSE ORAL	NOT AVAILABLE
497-19-8	7-13	SODIUM CARBONATE	NOT AVAILABLE	4090 MG/KG RAT ORAL 6600 MG/KG MOUSE ORAL	2300 MG/M3/2H RAT INHALATION 1200 MG/M3/2H MOUSE INHALATION
7722-88-5	10-30	TETRASODIUM PYROPHOSPHATE	5 MG/M3	4000 MG/KG RAT ORAL 2980 MG/KG MOUSE ORAL	NOT AVAILABLE
7758-29-4	10-30	SODIUM PHOSPHATE	NOT AVAILABLE	3120 MG/KG RAT ORAL 3100 MG/KG MOUSE ORAL >4640 MG/KG RABBIT DERMAL	NOT AVAILABLE

## Section 2A : ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).

CAS# 497-19-8: LD50 4020 mg/kg - rat oral.

CAS# 7758-29-4: LD50 3100 mg/kg - rat oral.

## Section 3 : PHYSICAL / CHEMICAL CHARACTERISTICS

**Physical state:** Solid

**Appearance & odor:** Almost odourless.  
White granular powder.

**Odor threshold (ppm):** Not available.

**Vapour pressure (mmHg):** Not applicable.

**Vapour density (air=1):** Not applicable.

**By weight:** Not available.

**Evaporation rate (butyl acetate = 1):** Not applicable.

**Boiling point (°C):** Not applicable.

**Freezing point (°C):** Not applicable.

**pH:** (1% aqueous solution).  
9.5

**Specific gravity @ 20 °C:** (water = 1).  
0.85 - 1.10

**Solubility in water (%):** 100 - > 10% w/w

**Coefficient of water\oil dist.:** Not available.

**VOC:** None

## Section 4 : FIRE AND EXPLOSION HAZARD DATA

**Flammability:** Not flammable.

**Conditions of flammability:** Surrounding fire.

**Extinguishing media:** Carbon dioxide, dry chemical, foam.  
Water  
Water fog.

**Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.

**Auto-ignition temperature:** Not available.

**Flash point (°C), method:** None

**Lower flammability limit (% vol):** Not applicable.

**Upper flammability limit (% vol):** Not applicable.

Not available.

**Sensitivity to mechanical impact:** Not applicable.

**Hazardous combustion products:** Oxides of carbon (COx).  
Hydrocarbons.

**Rate of burning:** Not available.

**Explosive power:** None

<b>Section 5 : REACTIVITY DATA</b>
------------------------------------

**Chemical stability:** Stable under normal conditions.

**Conditions of instability:** None known.

**Hazardous polymerization:** Will not occur.

**Incompatible substances:** Strong acids.  
Strong oxidizers.

**Hazardous decomposition products:** See hazardous combustion products.

<b>Section 6 : HEALTH HAZARD DATA</b>
---------------------------------------

**Route of entry:** Skin contact, eye contact, inhalation and ingestion.

**Effects of Acute Exposure**

**Eye contact:** May cause irritation.

**Skin contact:** Prolonged contact may cause irritation.

**Inhalation:** Airborne particles may cause irritation.

**Ingestion:** May cause vomiting and diarrhea.  
May cause abdominal pain.  
May cause gastric distress.

**Effects of chronic exposure:** Contains an ingredient which may be corrosive.

**LD50 of product, species & route:** > 5000 mg/kg rat oral.

**LC50 of product, species & route:** Not available for mixture, see the ingredients section.

**Exposure limit of material:** Not available for mixture, see the ingredients section.

**Sensitization to product:** Not available.

**Carcinogenic effects:** Not listed as a carcinogen.

**Reproductive effects:** Not available.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

**Synergistic materials:** Not available.

**Medical conditions aggravated by exposure:** Not available.

**First Aid**

**Skin contact:** Remove contaminated clothing.  
Wash thoroughly with soap and water.  
Seek medical attention if irritation persists.

**Eye contact:** Check for and remove contact lenses.  
Flush eyes with clear, running water for 15 minutes while holding eyelids open: if irritation persists, consult a physician.

**Inhalation:** Remove victim to fresh air.  
Seek medical attention if symptoms persist.

**Ingestion:** Dilute with two glasses of water.  
Never give anything by mouth to an unconscious person.  
Do not induce vomiting, seek immediate medical attention.

## Section 7 : PRECAUTIONS FOR SAFE HANDLING AND USE

**Leak/Spill:** Contain the spill.  
Recover uncontaminated material for re-use.  
Wear appropriate protective equipment.  
Contaminated material should be swept or shoveled into appropriate waste container for disposal.

**Waste disposal:** In accordance with municipal, provincial and federal regulations.

**Handling procedures and equipment:** Protect against physical damage.  
Avoid breathing dust.  
Wash thoroughly after handling.  
Keep out of reach of children.  
Avoid contact with skin, eyes and clothing.  
Launder contaminated clothing prior to reuse.

**Storage requirements:** Keep containers closed when not in use.  
Store away from strong acids or oxidizers.  
Store in a cool, dry and well ventilated area.

## Section 8 : CONTROL MEASURES

### Precautionary Measures

**Gloves/Type:**



Neoprene or rubber gloves.

**Respiratory/Type:**



If exposure limit is exceeded, wear a NIOSH approved respirator.

**Eye/Type:**



Safety glasses with side-shields.

**Footwear/Type:** Safety shoes per local regulations.

**Clothing/Type:** As required to prevent skin contact.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** Local exhaust at points of emission.

## **ATTACHMENT 5**

---

### **NEAR-MISS INCIDENT REPORT**

## Near-Miss Incident Report

(completed by field staff)

Employee: \_\_\_\_\_

Office or site location: \_\_\_\_\_

Near-Miss Incident (check one or more): Exposure ( ) Physical injury ( ) Property damage ( )

Location (city and state): \_\_\_\_\_ Project and Contract No. \_\_\_\_\_

Date of incident: \_\_\_\_\_ Time of incident: \_\_\_\_\_

Fully describe the incident, including how it happened, persons involved, if chemicals were involved in the incident, etc.:

---

---

---

---

---

---

---

---

Was the operation being conducted under an established safety plan? (Yes / No)

If yes, attach a copy. If no, explain: \_\_\_\_\_

---

\_\_\_\_\_  
Employee's signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Project manager's signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Site safety officer's signature

\_\_\_\_\_  
Date

## **APPENDIX H**

---

ELECTRONIC DATA SUMMARY  
LABORATORY DATA PACKAGES  
DATA USABILITY SUMMARY  
REPORT (DUSR)





## ANALYTICAL REPORT

Lab Number:	L1306694
Client:	Integral Consulting, Inc. 267 Broadway Fifth Floor New York, NY 10007
ATTN:	Alana Carroll
Phone:	(212) 962-4301
Project Name:	514 W. 27TH ST. NYC
Project Number:	E040
Report Date:	04/23/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1306694-01	SB-7_0-2	514 W. 27TH ST. NYC	04/16/13 13:00
L1306694-02	SB-7_7-9	514 W. 27TH ST. NYC	04/16/13 13:25

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### PCBs

The surrogate recoveries for L1306694-01 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

#### Pesticides

L1306694-01 has elevated detection limits due to the dilution required by the sample matrix.

The surrogate recoveries for L1306694-01 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

#### Metals

L1306694-01 and -02 have elevated detection limits for all elements, except Mercury, due to the dilutions required by the sample matrices.

The WG602446-4 MS recoveries for Aluminum (2370%), Calcium (211%), Copper (253%), Iron (15800%), Lead (951%), Manganese (0%), and Zinc (1560%), performed on L1306694-01, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG602446-4 MS recoveries, performed on L1306694-01, are above the acceptance criteria for Antimony (232%), Arsenic (176%), Barium (126%), Chromium (158%), Magnesium (158%), Potassium (227%), and Sodium (175%). A post digestion spike was performed with acceptable recoveries for Antimony (95%), Arsenic (92%), Barium (95%), Chromium (87%), Potassium (113%), and Sodium (103%); and an unacceptable recovery for Magnesium (79%). This has been attributed to sample matrix.

The WG602446-3 Laboratory Duplicate RPDs, performed on L1306694-01, are outside the acceptance criteria for Aluminum (37%), Antimony (83%), Magnesium (63%), Sodium (37%), and Zinc (65%). The elevated

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

**Case Narrative (continued)**

RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 04/23/13

# ORGANICS

# VOLATILES

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-01  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/18/13 11:17  
**Analyst:** BN  
**Percent Solids:** 80%

**Date Collected:** 04/16/13 13:00  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1000	200	1
1,1-Dichloroethane	ND		ug/kg	150	18.	1
Chloroform	ND		ug/kg	150	38.	1
Carbon tetrachloride	ND		ug/kg	100	21.	1
1,2-Dichloropropane	ND		ug/kg	360	23.	1
Dibromochloromethane	ND		ug/kg	100	31.	1
1,1,2-Trichloroethane	ND		ug/kg	150	31.	1
Tetrachloroethene	280		ug/kg	100	14.	1
Chlorobenzene	ND		ug/kg	100	35.	1
Trichlorofluoromethane	ND		ug/kg	510	12.	1
1,2-Dichloroethane	ND		ug/kg	100	15.	1
1,1,1-Trichloroethane	110		ug/kg	100	11.	1
Bromodichloromethane	ND		ug/kg	100	23.	1
trans-1,3-Dichloropropene	ND		ug/kg	100	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	100	13.	1
1,1-Dichloropropene	ND		ug/kg	510	46.	1
Bromoform	ND		ug/kg	410	42.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	100	17.	1
Benzene	ND		ug/kg	100	12.	1
Toluene	250		ug/kg	150	11.	1
Ethylbenzene	310		ug/kg	100	15.	1
Chloromethane	ND		ug/kg	510	80.	1
Bromomethane	140	J	ug/kg	200	34.	1
Vinyl chloride	370		ug/kg	200	14.	1
Chloroethane	ND		ug/kg	200	32.	1
1,1-Dichloroethene	ND		ug/kg	100	21.	1
trans-1,2-Dichloroethene	220		ug/kg	150	21.	1
Trichloroethene	1700		ug/kg	100	15.	1
1,2-Dichlorobenzene	ND		ug/kg	510	19.	1
1,3-Dichlorobenzene	ND		ug/kg	510	19.	1
1,4-Dichlorobenzene	ND		ug/kg	510	24.	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

Lab ID: L1306694-01

Date Collected: 04/16/13 13:00

Client ID: SB-7\_0-2

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	200	10.	1
p/m-Xylene	760		ug/kg	200	33.	1
o-Xylene	330		ug/kg	200	28.	1
cis-1,2-Dichloroethene	1400		ug/kg	100	15.	1
Dibromomethane	ND		ug/kg	1000	17.	1
Styrene	83	J	ug/kg	200	31.	1
Dichlorodifluoromethane	ND		ug/kg	1000	22.	1
Acetone	ND		ug/kg	1000	320	1
Carbon disulfide	ND		ug/kg	1000	200	1
2-Butanone	850	J	ug/kg	1000	36.	1
Vinyl acetate	ND		ug/kg	1000	49.	1
4-Methyl-2-pentanone	ND		ug/kg	1000	25.	1
1,2,3-Trichloropropane	ND		ug/kg	1000	23.	1
2-Hexanone	ND		ug/kg	1000	19.	1
Bromochloromethane	ND		ug/kg	510	20.	1
2,2-Dichloropropane	ND		ug/kg	510	23.	1
1,2-Dibromoethane	ND		ug/kg	410	18.	1
1,3-Dichloropropane	ND		ug/kg	510	18.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	100	32.	1
Bromobenzene	ND		ug/kg	510	21.	1
n-Butylbenzene	76	J	ug/kg	100	20.	1
sec-Butylbenzene	68	J	ug/kg	100	21.	1
tert-Butylbenzene	ND		ug/kg	510	57.	1
o-Chlorotoluene	68	J	ug/kg	510	16.	1
p-Chlorotoluene	ND		ug/kg	510	16.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	510	80.	1
Hexachlorobutadiene	ND		ug/kg	510	43.	1
Isopropylbenzene	ND		ug/kg	100	17.	1
p-Isopropyltoluene	410		ug/kg	100	19.	1
Naphthalene	1100		ug/kg	510	78.	1
Acrylonitrile	ND		ug/kg	1000	24.	1
n-Propylbenzene	86	J	ug/kg	100	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	510	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	510	80.	1
1,3,5-Trimethylbenzene	220	J	ug/kg	510	14.	1
1,2,4-Trimethylbenzene	620		ug/kg	510	58.	1
1,4-Dioxane	ND		ug/kg	10000	1800	1
1,4-Diethylbenzene	510		ug/kg	410	16.	1
4-Ethyltoluene	390	J	ug/kg	410	12.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

Lab ID: L1306694-01

Date Collected: 04/16/13 13:00

Client ID: SB-7\_0-2

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	300	J	ug/kg	410	13.	1
Ethyl ether	ND		ug/kg	510	27.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	510	45.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	85		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-02  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/17/13 17:55  
**Analyst:** PP  
**Percent Solids:** 83%

**Date Collected:** 04/16/13 13:25  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.21	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.54	1
Bromoform	ND		ug/kg	4.7	0.49	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.9	0.92	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.17	1
Chloroethane	ND		ug/kg	2.4	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.28	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

Lab ID: L1306694-02  
 Client ID: SB-7\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 13:25  
 Date Received: 04/16/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.12	1
p/m-Xylene	ND		ug/kg	2.4	0.38	1
o-Xylene	ND		ug/kg	2.4	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.4	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.26	1
Acetone	ND		ug/kg	12	3.7	1
Carbon disulfide	ND		ug/kg	12	2.4	1
2-Butanone	ND		ug/kg	12	0.42	1
Vinyl acetate	ND		ug/kg	12	0.57	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.9	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	5.9	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.9	0.66	1
o-Chlorotoluene	ND		ug/kg	5.9	0.19	1
p-Chlorotoluene	ND		ug/kg	5.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.93	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.50	1
Isopropylbenzene	ND		ug/kg	1.2	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	ND		ug/kg	5.9	0.91	1
Acrylonitrile	ND		ug/kg	12	0.28	1
n-Propylbenzene	ND		ug/kg	1.2	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.93	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	0.68	1
1,4-Dioxane	ND		ug/kg	120	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.7	0.19	1
4-Ethyltoluene	ND		ug/kg	4.7	0.14	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

Lab ID: L1306694-02

Date Collected: 04/16/13 13:25

Client ID: SB-7\_7-9

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.7	0.15	1
Ethyl ether	ND		ug/kg	5.9	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/17/13 08:59  
 Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG602320-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	0.70	J	ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/17/13 08:59  
 Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG602320-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/17/13 08:59  
 Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG602320-3					
Acrylonitrile	ND		ug/kg	10	0.24
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/17/13 08:59

Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG602320-3					
--	--	--	--	--	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/18/13 10:21  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG602568-3					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	30	J	ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/18/13 10:21  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG602568-3					
1,4-Dichlorobenzene	ND		ug/kg	250	12.
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/18/13 10:21  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG602568-3					
Acrylonitrile	ND		ug/kg	500	12.
Isopropyl Ether	ND		ug/kg	200	7.0
tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
Methyl Acetate	ND		ug/kg	1000	38.
Ethyl Acetate	ND		ug/kg	1000	41.
Acrolein	ND		ug/kg	1200	460
Cyclohexane	ND		ug/kg	1000	54.
1,4-Dioxane	ND		ug/kg	5000	870
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	14.
1,4-Diethylbenzene	ND		ug/kg	200	8.0
4-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	19.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.
Methyl cyclohexane	ND		ug/kg	200	63.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	21.
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	29.

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/18/13 10:21

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG602568-3					
--	--	--	--	--	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306694

Report Date: 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG602320-1								
Methylene chloride	109		-		70-130	-		30
1,1-Dichloroethane	115		-		70-130	-		30
Chloroform	111		-		70-130	-		30
Carbon tetrachloride	120		-		70-130	-		30
1,2-Dichloropropane	110		-		70-130	-		30
Dibromochloromethane	102		-		70-130	-		30
2-Chloroethylvinyl ether	110		-			-		30
1,1,2-Trichloroethane	100		-		70-130	-		30
Tetrachloroethene	112		-		70-130	-		30
Chlorobenzene	105		-		70-130	-		30
Trichlorofluoromethane	120		-		70-139	-		30
1,2-Dichloroethane	103		-		70-130	-		30
1,1,1-Trichloroethane	112		-		70-130	-		30
Bromodichloromethane	109		-		70-130	-		30
trans-1,3-Dichloropropene	103		-		70-130	-		30
cis-1,3-Dichloropropene	108		-		70-130	-		30
1,1-Dichloropropene	116		-		70-130	-		30
Bromoform	90		-		70-130	-		30
1,1,2,2-Tetrachloroethane	91		-		70-130	-		30
Benzene	110		-		70-130	-		30
Toluene	106		-		70-130	-		30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG602320-1								
Ethylbenzene	106		-		70-130	-		30
Chloromethane	120		-		52-130	-		30
Bromomethane	121		-		57-147	-		30
Vinyl chloride	125		-		67-130	-		30
Chloroethane	117		-		50-151	-		30
1,1-Dichloroethene	118		-		65-135	-		30
trans-1,2-Dichloroethene	113		-		70-130	-		30
Trichloroethene	111		-		70-130	-		30
1,2-Dichlorobenzene	103		-		70-130	-		30
1,3-Dichlorobenzene	106		-		70-130	-		30
1,4-Dichlorobenzene	104		-		70-130	-		30
Methyl tert butyl ether	99		-		66-130	-		30
p/m-Xylene	109		-		70-130	-		30
o-Xylene	105		-		70-130	-		30
cis-1,2-Dichloroethene	108		-		70-130	-		30
Dibromomethane	104		-		70-130	-		30
Styrene	103		-		70-130	-		30
Dichlorodifluoromethane	120		-		30-146	-		30
Acetone	102		-		54-140	-		30
Carbon disulfide	116		-		59-130	-		30
2-Butanone	92		-		70-130	-		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306694

Report Date: 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG602320-1								
Vinyl acetate	99		-		70-130	-		30
4-Methyl-2-pentanone	82		-		70-130	-		30
1,2,3-Trichloropropane	86		-		68-130	-		30
2-Hexanone	82		-		70-130	-		30
Bromochloromethane	110		-		70-130	-		30
2,2-Dichloropropane	114		-		70-130	-		30
1,2-Dibromoethane	100		-		70-130	-		30
1,3-Dichloropropane	101		-		69-130	-		30
1,1,1,2-Tetrachloroethane	103		-		70-130	-		30
Bromobenzene	104		-		70-130	-		30
n-Butylbenzene	111		-		70-130	-		30
sec-Butylbenzene	110		-		70-130	-		30
tert-Butylbenzene	111		-		70-130	-		30
o-Chlorotoluene	112		-		70-130	-		30
p-Chlorotoluene	106		-		70-130	-		30
1,2-Dibromo-3-chloropropane	86		-		68-130	-		30
Hexachlorobutadiene	114		-		67-130	-		30
Isopropylbenzene	107		-		70-130	-		30
p-Isopropyltoluene	109		-		70-130	-		30
Naphthalene	91		-		70-130	-		30
Acrylonitrile	96		-		70-130	-		30



# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306694

Report Date: 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG602320-1								
Isopropyl Ether	110		-		66-130	-		30
tert-Butyl Alcohol	74		-		70-130	-		30
n-Propylbenzene	108		-		70-130	-		30
1,2,3-Trichlorobenzene	101		-		70-130	-		30
1,2,4-Trichlorobenzene	106		-		70-130	-		30
1,3,5-Trimethylbenzene	108		-		70-130	-		30
1,2,4-Trimethylbenzene	108		-		70-130	-		30
Methyl Acetate	90		-		70-130	-		30
Ethyl Acetate	90		-		70-130	-		30
Acrolein	91		-		70-130	-		30
Cyclohexane	122		-		70-130	-		30
1,4-Dioxane	92		-		65-136	-		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	121		-		70-130	-		30
1,4-Diethylbenzene	109		-		70-130	-		30
4-Ethyltoluene	109		-		70-130	-		30
1,2,4,5-Tetramethylbenzene	106		-		70-130	-		30
Tetrahydrofuran	90		-		66-130	-		30
Ethyl ether	101		-		67-130	-		30
trans-1,4-Dichloro-2-butene	92		-		70-130	-		30
Methyl cyclohexane	120		-		70-130	-		30
Ethyl-Tert-Butyl-Ether	105		-		70-130	-		30

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG602320-1								
Tertiary-Amyl Methyl Ether	100		-		70-130	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94				70-130
Toluene-d8	101				70-130
4-Bromofluorobenzene	99				70-130
Dibromofluoromethane	100				70-130

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG602568-1 WG602568-2								
Methylene chloride	118		117		70-130	1		30
1,1-Dichloroethane	119		117		70-130	2		30
Chloroform	117		116		70-130	1		30
Carbon tetrachloride	112		110		70-130	2		30
1,2-Dichloropropane	119		118		70-130	1		30
Dibromochloromethane	94		95		70-130	1		30
2-Chloroethylvinyl ether	119		118			1		30
1,1,2-Trichloroethane	95		96		70-130	1		30
Tetrachloroethene	94		92		70-130	2		30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG602568-1 WG602568-2								
Chlorobenzene	95		94		70-130	1		30
Trichlorofluoromethane	110		107		70-139	3		30
1,2-Dichloroethane	116		118		70-130	2		30
1,1,1-Trichloroethane	115		113		70-130	2		30
Bromodichloromethane	117		120		70-130	3		30
trans-1,3-Dichloropropene	96		96		70-130	0		30
cis-1,3-Dichloropropene	120		120		70-130	0		30
1,1-Dichloropropene	117		114		70-130	3		30
Bromoform	84		86		70-130	2		30
1,1,2,2-Tetrachloroethane	85		87		70-130	2		30
Benzene	117		117		70-130	0		30
Toluene	92		92		70-130	0		30
Ethylbenzene	95		94		70-130	1		30
Chloromethane	120		115		52-130	4		30
Bromomethane	122		116		57-147	5		30
Vinyl chloride	116		114		67-130	2		30
Chloroethane	120		117		50-151	3		30
1,1-Dichloroethene	115		114		65-135	1		30
trans-1,2-Dichloroethene	117		116		70-130	1		30
Trichloroethene	117		116		70-130	1		30
1,2-Dichlorobenzene	86		86		70-130	0		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306694

Report Date: 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG602568-1 WG602568-2								
1,3-Dichlorobenzene	86		86		70-130	0		30
1,4-Dichlorobenzene	86		86		70-130	0		30
Methyl tert butyl ether	118		119		66-130	1		30
p/m-Xylene	97		95		70-130	2		30
o-Xylene	97		96		70-130	1		30
cis-1,2-Dichloroethene	119		119		70-130	0		30
Dibromomethane	116		117		70-130	1		30
Styrene	98		98		70-130	0		30
Dichlorodifluoromethane	99		96		30-146	3		30
Acetone	123		111		54-140	10		30
Carbon disulfide	112		110		59-130	2		30
2-Butanone	140	Q	134	Q	70-130	4		30
Vinyl acetate	125		125		70-130	0		30
4-Methyl-2-pentanone	120		122		70-130	2		30
1,2,3-Trichloropropane	85		85		68-130	0		30
2-Hexanone	98		97		70-130	1		30
Bromochloromethane	120		121		70-130	1		30
2,2-Dichloropropane	116		113		70-130	3		30
1,2-Dibromoethane	94		95		70-130	1		30
1,3-Dichloropropane	94		95		69-130	1		30
1,1,1,2-Tetrachloroethane	94		94		70-130	0		30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG602568-1 WG602568-2								
Bromobenzene	87		87		70-130	0		30
n-Butylbenzene	87		86		70-130	1		30
sec-Butylbenzene	86		85		70-130	1		30
tert-Butylbenzene	86		86		70-130	0		30
o-Chlorotoluene	88		87		70-130	1		30
p-Chlorotoluene	87		86		70-130	1		30
1,2-Dibromo-3-chloropropane	81		82		68-130	1		30
Hexachlorobutadiene	87		84		67-130	4		30
Isopropylbenzene	86		85		70-130	1		30
p-Isopropyltoluene	87		86		70-130	1		30
Naphthalene	88		90		70-130	2		30
Acrylonitrile	116		119		70-130	3		30
Isopropyl Ether	119		120		66-130	1		30
tert-Butyl Alcohol	121		126		70-130	4		30
n-Propylbenzene	87		85		70-130	2		30
1,2,3-Trichlorobenzene	88		89		70-130	1		30
1,2,4-Trichlorobenzene	87		87		70-130	0		30
1,3,5-Trimethylbenzene	87		86		70-130	1		30
1,2,4-Trimethylbenzene	88		87		70-130	1		30
Methyl Acetate	115		118		51-146	3		30
Ethyl Acetate	118		120		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306694

Report Date: 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG602568-1 WG602568-2								
Acrolein	113		116		70-130	3		30
Cyclohexane	109		105		59-142	4		30
1,4-Dioxane	125		132		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	106		102		50-139	4		30
1,4-Diethylbenzene	87		86		70-130	1		30
4-Ethyltoluene	87		86		70-130	1		30
1,2,4,5-Tetramethylbenzene	88		88		70-130	0		30
Tetrahydrofuran	115		119		66-130	3		30
Ethyl ether	118		118		67-130	0		30
trans-1,4-Dichloro-2-butene	85		86		70-130	1		30
Methyl cyclohexane	105		102		70-130	3		30
Ethyl-Tert-Butyl-Ether	120		121		70-130	1		30
Tertiary-Amyl Methyl Ether	118		120		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		95		70-130
Toluene-d8	87		87		70-130
4-Bromofluorobenzene	97		99		70-130
Dibromofluoromethane	104		105		70-130

# SEMIVOLATILES

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-01  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/19/13 14:39  
**Analyst:** JB  
**Percent Solids:** 80%

**Date Collected:** 04/16/13 13:00  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/17/13 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	580		ug/kg	160	42.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	67.	1
Hexachlorobenzene	ND		ug/kg	120	38.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	57.	1
2-Chloronaphthalene	ND		ug/kg	200	67.	1
1,2-Dichlorobenzene	ND		ug/kg	200	67.	1
1,3-Dichlorobenzene	ND		ug/kg	200	65.	1
1,4-Dichlorobenzene	ND		ug/kg	200	62.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	44.	1
2,6-Dinitrotoluene	ND		ug/kg	200	52.	1
Fluoranthene	5700		ug/kg	120	38.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	62.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	47.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	72.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	62.	1
Hexachlorobutadiene	ND		ug/kg	200	58.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	130	1
Hexachloroethane	ND		ug/kg	160	37.	1
Isophorone	ND		ug/kg	180	54.	1
Naphthalene	790		ug/kg	200	68.	1
Nitrobenzene	ND		ug/kg	180	49.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	43.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	61.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	54.	1
Butyl benzyl phthalate	6600		ug/kg	200	40.	1
Di-n-butylphthalate	ND		ug/kg	200	40.	1
Di-n-octylphthalate	ND		ug/kg	200	50.	1
Diethyl phthalate	ND		ug/kg	200	43.	1
Dimethyl phthalate	ND		ug/kg	200	52.	1
Benzo(a)anthracene	3700		ug/kg	120	40.	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

Lab ID: L1306694-01

Date Collected: 04/16/13 13:00

Client ID: SB-7\_0-2

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	2500		ug/kg	160	50.	1
Benzo(b)fluoranthene	3100		ug/kg	120	41.	1
Benzo(k)fluoranthene	1400		ug/kg	120	39.	1
Chrysene	3000		ug/kg	120	40.	1
Acenaphthylene	ND		ug/kg	160	38.	1
Anthracene	1400		ug/kg	120	34.	1
Benzo(ghi)perylene	1400		ug/kg	160	43.	1
Fluorene	620		ug/kg	200	59.	1
Phenanthrene	4700		ug/kg	120	40.	1
Dibenzo(a,h)anthracene	270		ug/kg	120	40.	1
Indeno(1,2,3-cd)Pyrene	1400		ug/kg	160	46.	1
Pyrene	5200		ug/kg	120	40.	1
Biphenyl	160	J	ug/kg	470	68.	1
4-Chloroaniline	ND		ug/kg	200	54.	1
2-Nitroaniline	ND		ug/kg	200	58.	1
3-Nitroaniline	ND		ug/kg	200	56.	1
4-Nitroaniline	ND		ug/kg	200	55.	1
Dibenzofuran	410		ug/kg	200	68.	1
2-Methylnaphthalene	660		ug/kg	240	65.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	64.	1
Acetophenone	ND		ug/kg	200	64.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
P-Chloro-M-Cresol	ND		ug/kg	200	59.	1
2-Chlorophenol	ND		ug/kg	200	62.	1
2,4-Dichlorophenol	ND		ug/kg	180	66.	1
2,4-Dimethylphenol	260		ug/kg	200	61.	1
2-Nitrophenol	ND		ug/kg	440	64.	1
4-Nitrophenol	ND		ug/kg	290	66.	1
2,4-Dinitrophenol	ND		ug/kg	980	280	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	75.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	560		ug/kg	200	61.	1
2-Methylphenol	88	J	ug/kg	200	66.	1
3-Methylphenol/4-Methylphenol	660		ug/kg	300	67.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	66.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	470		ug/kg	200	44.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

Lab ID: L1306694-01

Date Collected: 04/16/13 13:00

Client ID: SB-7\_0-2

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	71		0-136
4-Terphenyl-d14	61		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-02  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/19/13 15:07  
**Analyst:** JB  
**Percent Solids:** 83%

**Date Collected:** 04/16/13 13:25  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/17/13 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	41.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	65.	1
Hexachlorobenzene	ND		ug/kg	120	37.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	55.	1
2-Chloronaphthalene	ND		ug/kg	200	64.	1
1,2-Dichlorobenzene	ND		ug/kg	200	65.	1
1,3-Dichlorobenzene	ND		ug/kg	200	62.	1
1,4-Dichlorobenzene	ND		ug/kg	200	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	43.	1
2,6-Dinitrotoluene	ND		ug/kg	200	50.	1
Fluoranthene	ND		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	60.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	45.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	70.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	60.	1
Hexachlorobutadiene	ND		ug/kg	200	56.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	130	1
Hexachloroethane	ND		ug/kg	160	36.	1
Isophorone	ND		ug/kg	180	52.	1
Naphthalene	ND		ug/kg	200	66.	1
Nitrobenzene	ND		ug/kg	180	47.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	41.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	59.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	52.	1
Butyl benzyl phthalate	ND		ug/kg	200	39.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	49.	1
Diethyl phthalate	ND		ug/kg	200	42.	1
Dimethyl phthalate	ND		ug/kg	200	50.	1
Benzo(a)anthracene	ND		ug/kg	120	39.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

Lab ID: L1306694-02

Date Collected: 04/16/13 13:25

Client ID: SB-7\_7-9

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	40.	1
Benzo(k)fluoranthene	ND		ug/kg	120	38.	1
Chrysene	ND		ug/kg	120	39.	1
Acenaphthylene	ND		ug/kg	160	37.	1
Anthracene	ND		ug/kg	120	33.	1
Benzo(ghi)perylene	ND		ug/kg	160	41.	1
Fluorene	ND		ug/kg	200	57.	1
Phenanthrene	ND		ug/kg	120	39.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	44.	1
Pyrene	ND		ug/kg	120	38.	1
Biphenyl	ND		ug/kg	450	65.	1
4-Chloroaniline	ND		ug/kg	200	52.	1
2-Nitroaniline	ND		ug/kg	200	56.	1
3-Nitroaniline	ND		ug/kg	200	54.	1
4-Nitroaniline	ND		ug/kg	200	53.	1
Dibenzofuran	ND		ug/kg	200	66.	1
2-Methylnaphthalene	ND		ug/kg	240	63.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	61.	1
Acetophenone	ND		ug/kg	200	61.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
P-Chloro-M-Cresol	ND		ug/kg	200	57.	1
2-Chlorophenol	ND		ug/kg	200	60.	1
2,4-Dichlorophenol	ND		ug/kg	180	64.	1
2,4-Dimethylphenol	ND		ug/kg	200	59.	1
2-Nitrophenol	ND		ug/kg	430	62.	1
4-Nitrophenol	ND		ug/kg	280	64.	1
2,4-Dinitrophenol	ND		ug/kg	950	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	72.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	200	58.	1
2-Methylphenol	ND		ug/kg	200	64.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	65.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	64.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	42.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

Lab ID: L1306694-02

Date Collected: 04/16/13 13:25

Client ID: SB-7\_7-9

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	76		0-136
4-Terphenyl-d14	67		18-120

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/19/13 11:52  
 Analyst: JB

Extraction Method: EPA 3546  
 Extraction Date: 04/17/13 08:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG602082-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	98	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	98	32.

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/19/13 11:52  
 Analyst: JB

Extraction Method: EPA 3546  
 Extraction Date: 04/17/13 08:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG602082-1					
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	350	51.
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	790	220
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/19/13 11:52  
 Analyst: JB

Extraction Method: EPA 3546  
 Extraction Date: 04/17/13 08:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG602082-1					
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

#### Tentatively Identified Compounds

Unknown 150 J ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	77		0-136
4-Terphenyl-d14	80		18-120



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG602082-2 WG602082-3								
Acenaphthene	72		78		31-137	8		50
1,2,4-Trichlorobenzene	68		77		38-107	12		50
Hexachlorobenzene	86		91		40-140	6		50
Bis(2-chloroethyl)ether	58		68		40-140	16		50
2-Chloronaphthalene	71		77		40-140	8		50
1,2-Dichlorobenzene	59		70		40-140	17		50
1,3-Dichlorobenzene	58		70		40-140	19		50
1,4-Dichlorobenzene	59		70		28-104	17		50
3,3'-Dichlorobenzidine	47		53		40-140	12		50
2,4-Dinitrotoluene	92	Q	95	Q	28-89	3		50
2,6-Dinitrotoluene	87		94		40-140	8		50
Fluoranthene	81		85		40-140	5		50
4-Chlorophenyl phenyl ether	78		83		40-140	6		50
4-Bromophenyl phenyl ether	85		89		40-140	5		50
Bis(2-chloroisopropyl)ether	60		71		40-140	17		50
Bis(2-chloroethoxy)methane	59		68		40-117	14		50
Hexachlorobutadiene	67		79		40-140	16		50
Hexachlorocyclopentadiene	57		68		40-140	18		50
Hexachloroethane	60		73		40-140	20		50
Isophorone	62		73		40-140	16		50
Naphthalene	67		76		40-140	13		50

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG602082-2 WG602082-3								
Nitrobenzene	75		86		40-140	14		50
NitrosoDiPhenylAmine(NDPA)/DPA	79		85			7		50
n-Nitrosodi-n-propylamine	62		72		32-121	15		50
Bis(2-Ethylhexyl)phthalate	87		90		40-140	3		50
Butyl benzyl phthalate	82		86		40-140	5		50
Di-n-butylphthalate	88		91		40-140	3		50
Di-n-octylphthalate	89		92		40-140	3		50
Diethyl phthalate	80		86		40-140	7		50
Dimethyl phthalate	81		86		40-140	6		50
Benzo(a)anthracene	87		89		40-140	2		50
Benzo(a)pyrene	83		82		40-140	1		50
Benzo(b)fluoranthene	77		77		40-140	0		50
Benzo(k)fluoranthene	86		93		40-140	8		50
Chrysene	82		86		40-140	5		50
Acenaphthylene	77		83		40-140	8		50
Anthracene	83		87		40-140	5		50
Benzo(ghi)perylene	84		89		40-140	6		50
Fluorene	79		85		40-140	7		50
Phenanthrene	79		83		40-140	5		50
Dibenzo(a,h)anthracene	83		87		40-140	5		50
Indeno(1,2,3-cd)Pyrene	76		81		40-140	6		50

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG602082-2 WG602082-3								
Pyrene	79		81		35-142	3		50
Biphenyl	70		79			12		50
4-Chloroaniline	47		58		40-140	21		50
2-Nitroaniline	86		91		47-134	6		50
3-Nitroaniline	44		47		26-129	7		50
4-Nitroaniline	83		86		41-125	4		50
Dibenzofuran	76		84		40-140	10		50
2-Methylnaphthalene	67		74		40-140	10		50
1,2,4,5-Tetrachlorobenzene	74		84		40-117	13		50
Acetophenone	63		76		14-144	19		50
2,4,6-Trichlorophenol	90		94		30-130	4		50
P-Chloro-M-Cresol	89		92		26-103	3		50
2-Chlorophenol	68		79		25-102	15		50
2,4-Dichlorophenol	80		89		30-130	11		50
2,4-Dimethylphenol	65		77		30-130	17		50
2-Nitrophenol	69		84		30-130	20		50
4-Nitrophenol	103		107		11-114	4		50
2,4-Dinitrophenol	95		99		4-130	4		50
4,6-Dinitro-o-cresol	93		97		10-130	4		50
Pentachlorophenol	83		86		17-109	4		50
Phenol	65		75		26-90	14		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG602082-2 WG602082-3								
2-Methylphenol	67		78		30-130.	15		50
3-Methylphenol/4-Methylphenol	70		83		30-130	17		50
2,4,5-Trichlorophenol	92		96		30-130	4		50
Benzoic Acid	37		41			10		50
Benzyl Alcohol	64		74		40-140	14		50
Carbazole	80		84		54-128	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	66		77		25-120
Phenol-d6	65		74		10-120
Nitrobenzene-d5	70		80		23-120
2-Fluorobiphenyl	70		76		30-120
2,4,6-Tribromophenol	88		91		0-136
4-Terphenyl-d14	79		79		18-120

# PCBS

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-01      D  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/19/13 14:18  
**Analyst:** KB  
**Percent Solids:** 80%

**Date Collected:** 04/16/13 13:00  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/17/13 09:54  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/17/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/17/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	402	79.5	10
Aroclor 1221	ND		ug/kg	402	121.	10
Aroclor 1232	ND		ug/kg	402	85.5	10
Aroclor 1248	ND		ug/kg	402	48.7	10
Aroclor 1254	ND		ug/kg	402	63.4	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-01      D  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/19/13 14:18  
**Analyst:** KB  
**Percent Solids:** 80%

**Date Collected:** 04/16/13 13:00  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/17/13 09:54  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/17/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/17/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1242	3800		ug/kg	402	76.4	10
Aroclor 1260	435		ug/kg	402	69.8	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-02  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/18/13 13:11  
**Analyst:** KB  
**Percent Solids:** 83%

**Date Collected:** 04/16/13 13:25  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/17/13 09:54  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/17/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/17/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.4	7.58	1
Aroclor 1221	ND		ug/kg	38.4	11.6	1
Aroclor 1232	ND		ug/kg	38.4	8.16	1
Aroclor 1242	ND		ug/kg	38.4	7.29	1
Aroclor 1248	ND		ug/kg	38.4	4.64	1
Aroclor 1254	ND		ug/kg	38.4	6.05	1
Aroclor 1260	ND		ug/kg	38.4	6.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	86		30-150
Decachlorobiphenyl	34		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	42		30-150



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 04/18/13 11:26  
 Analyst: KB

Extraction Method: EPA 3546  
 Extraction Date: 04/17/13 09:54  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/17/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/17/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG602117-1					
Aroclor 1016	ND		ug/kg	32.8	6.48
Aroclor 1221	ND		ug/kg	32.8	9.90
Aroclor 1232	ND		ug/kg	32.8	6.97
Aroclor 1242	ND		ug/kg	32.8	6.23
Aroclor 1248	ND		ug/kg	32.8	3.97
Aroclor 1254	ND		ug/kg	32.8	5.18
Aroclor 1260	ND		ug/kg	32.8	5.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	100		30-150
Decachlorobiphenyl	117		30-150
2,4,5,6-Tetrachloro-m-xylene	106		30-150
Decachlorobiphenyl	142		30-150

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG602117-2 WG602117-3								
Aroclor 1016	79		82		40-140	4		50
Aroclor 1260	88		90		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	102		103		30-150
Decachlorobiphenyl	112		116		30-150
2,4,5,6-Tetrachloro-m-xylene	105		106		30-150
Decachlorobiphenyl	132		137		30-150

# PESTICIDES

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-01      D  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/19/13 10:53  
**Analyst:** BW  
**Percent Solids:** 80%

**Date Collected:** 04/16/13 13:00  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/17/13 15:33  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/18/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
4,4'-DDD	17.1	J	ug/kg	39.9	14.2	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-01      D  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/19/13 10:53  
**Analyst:** BW  
**Percent Solids:** 80%

**Date Collected:** 04/16/13 13:00  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/17/13 15:33  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/18/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	39.9	7.81	20
Lindane	ND		ug/kg	16.6	7.43	20
Alpha-BHC	ND		ug/kg	16.6	4.72	20
Beta-BHC	ND		ug/kg	39.9	15.1	20
Heptachlor	ND		ug/kg	19.9	8.94	20
Aldrin	ND		ug/kg	39.9	14.0	20
Heptachlor epoxide	ND		ug/kg	74.8	22.4	20
Endrin	ND		ug/kg	16.6	6.82	20
Endrin ketone	ND		ug/kg	39.9	10.3	20
Dieldrin	17.4	J	ug/kg	24.9	12.5	20
4,4'-DDE	ND		ug/kg	39.9	9.23	20
4,4'-DDT	ND		ug/kg	74.8	32.1	20
Endosulfan I	ND		ug/kg	39.9	9.42	20
Endosulfan II	ND		ug/kg	39.9	13.3	20
Endosulfan sulfate	ND		ug/kg	16.6	7.60	20
Methoxychlor	ND		ug/kg	74.8	23.3	20
Toxaphene	ND		ug/kg	748	209.	20
cis-Chlordane	ND		ug/kg	49.9	13.9	20
trans-Chlordane	ND		ug/kg	49.9	13.2	20
Chlordane	ND		ug/kg	324	132.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306694**Project Number:** E040**Report Date:** 04/23/13**SAMPLE RESULTS**

**Lab ID:** L1306694-02  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/18/13 16:58  
**Analyst:** BW  
**Percent Solids:** 83%

**Date Collected:** 04/16/13 13:25  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/17/13 15:33  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/18/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.90	0.373	1
Lindane	ND		ug/kg	0.794	0.355	1
Alpha-BHC	ND		ug/kg	0.794	0.225	1
Beta-BHC	ND		ug/kg	1.90	0.722	1
Heptachlor	ND		ug/kg	0.952	0.427	1
Aldrin	ND		ug/kg	1.90	0.671	1
Heptachlor epoxide	ND		ug/kg	3.57	1.07	1
Endrin	ND		ug/kg	0.794	0.325	1
Endrin ketone	ND		ug/kg	1.90	0.490	1
Dieldrin	ND		ug/kg	1.19	0.595	1
4,4'-DDE	ND		ug/kg	1.90	0.440	1
4,4'-DDD	ND		ug/kg	1.90	0.679	1
4,4'-DDT	ND		ug/kg	3.57	1.53	1
Endosulfan I	ND		ug/kg	1.90	0.450	1
Endosulfan II	ND		ug/kg	1.90	0.636	1
Endosulfan sulfate	ND		ug/kg	0.794	0.363	1
Methoxychlor	ND		ug/kg	3.57	1.11	1
Toxaphene	ND		ug/kg	35.7	10.0	1
cis-Chlordane	ND		ug/kg	2.38	0.664	1
trans-Chlordane	ND		ug/kg	2.38	0.629	1
Chlordane	ND		ug/kg	15.5	6.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	132		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 04/18/13 16:32  
 Analyst: BW

Extraction Method: EPA 3546  
 Extraction Date: 04/17/13 15:33  
 Cleanup Method1: EPA 3620B  
 Cleanup Date1: 04/18/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG602225-1					
Delta-BHC	ND		ug/kg	1.58	0.309
Lindane	ND		ug/kg	0.658	0.294
Alpha-BHC	ND		ug/kg	0.658	0.187
Beta-BHC	ND		ug/kg	1.58	0.599
Heptachlor	ND		ug/kg	0.789	0.354
Aldrin	ND		ug/kg	1.58	0.556
Heptachlor epoxide	ND		ug/kg	2.96	0.888
Endrin	ND		ug/kg	0.658	0.270
Endrin ketone	ND		ug/kg	1.58	0.406
Dieldrin	ND		ug/kg	0.987	0.493
4,4'-DDE	ND		ug/kg	1.58	0.365
4,4'-DDD	ND		ug/kg	1.58	0.563
4,4'-DDT	ND		ug/kg	2.96	1.27
Endosulfan I	ND		ug/kg	1.58	0.373
Endosulfan II	ND		ug/kg	1.58	0.528
Endosulfan sulfate	ND		ug/kg	0.658	0.301
Methoxychlor	ND		ug/kg	2.96	0.921
Toxaphene	ND		ug/kg	29.6	8.29
cis-Chlordane	ND		ug/kg	1.97	0.550
trans-Chlordane	ND		ug/kg	1.97	0.521
Chlordane	ND		ug/kg	12.8	5.23

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	122		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	120		30-150	B

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG602225-2 WG602225-3								
Delta-BHC	91		88		30-150	3		30
Lindane	77		97		30-150	23		30
Alpha-BHC	98		97		30-150	1		30
Beta-BHC	96		94		30-150	2		30
Heptachlor	102		99		30-150	3		30
Aldrin	104		102		30-150	2		30
Heptachlor epoxide	100		99		30-150	1		30
Endrin	108		107		30-150	1		30
Endrin ketone	75		72		30-150	4		30
Dieldrin	101		99		30-150	2		30
4,4'-DDE	99		98		30-150	1		30
4,4'-DDD	94		92		30-150	2		30
4,4'-DDT	98		95		30-150	3		30
Endosulfan I	99		99		30-150	0		30
Endosulfan II	85		83		30-150	2		30
Endosulfan sulfate	63		62		30-150	2		30
Methoxychlor	100		102		30-150	2		30
cis-Chlordane	100		99		30-150	1		30
trans-Chlordane	104		102		30-150	2		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG602225-2 WG602225-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	114		114		30-150	A
Decachlorobiphenyl	96		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		97		30-150	B
Decachlorobiphenyl	110		112		30-150	B

## METALS

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

## SAMPLE RESULTS

Lab ID: L1306694-01

Date Collected: 04/16/13 13:00

Client ID: SB-7\_0-2

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5100		mg/kg	9.5	1.9	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Antimony, Total	30		mg/kg	4.7	0.95	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Arsenic, Total	7.0		mg/kg	0.95	0.28	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Barium, Total	110		mg/kg	0.95	0.28	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Beryllium, Total	0.32	J	mg/kg	0.47	0.04	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Cadmium, Total	1.8		mg/kg	0.95	0.06	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Calcium, Total	24000		mg/kg	9.5	1.9	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Chromium, Total	38		mg/kg	0.95	0.19	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Cobalt, Total	5.9		mg/kg	1.9	0.47	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Copper, Total	170		mg/kg	0.95	0.47	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Iron, Total	24000		mg/kg	4.7	1.9	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Lead, Total	740		mg/kg	4.7	0.28	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Magnesium, Total	2300		mg/kg	9.5	3.8	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Manganese, Total	370		mg/kg	0.95	0.19	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Mercury, Total	1.6		mg/kg	0.10	0.02	1	04/22/13 07:32	04/22/13 11:16	EPA 7471B	1,7471B	MC
Nickel, Total	15		mg/kg	2.4	0.38	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Potassium, Total	850		mg/kg	240	76.	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Selenium, Total	2.2		mg/kg	1.9	0.28	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Silver, Total	0.94	J	mg/kg	0.95	0.19	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Sodium, Total	640		mg/kg	190	76.	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.9	0.57	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Vanadium, Total	19		mg/kg	0.95	0.19	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG
Zinc, Total	660		mg/kg	4.7	0.47	2	04/18/13 11:45	04/19/13 09:44	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

## SAMPLE RESULTS

Lab ID: L1306694-02

Date Collected: 04/16/13 13:25

Client ID: SB-7\_7-9

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9800		mg/kg	9.1	1.8	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Antimony, Total	2.0	J	mg/kg	4.5	0.91	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Arsenic, Total	2.9		mg/kg	0.91	0.27	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Barium, Total	39		mg/kg	0.91	0.27	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Beryllium, Total	0.39	J	mg/kg	0.45	0.04	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.91	0.05	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Calcium, Total	1000		mg/kg	9.1	1.8	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Chromium, Total	18		mg/kg	0.91	0.18	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Cobalt, Total	7.2		mg/kg	1.8	0.45	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Copper, Total	16		mg/kg	0.91	0.45	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Iron, Total	17000		mg/kg	4.5	1.8	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Lead, Total	7.6		mg/kg	4.5	0.27	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Magnesium, Total	2700		mg/kg	9.1	3.6	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Manganese, Total	570		mg/kg	0.91	0.18	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	04/22/13 07:32	04/22/13 11:18	EPA 7471B	1,7471B	MC
Nickel, Total	14		mg/kg	2.3	0.36	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Potassium, Total	840		mg/kg	230	73.	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Selenium, Total	1.4	J	mg/kg	1.8	0.27	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.91	0.18	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Sodium, Total	250		mg/kg	180	73.	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.54	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Vanadium, Total	23		mg/kg	0.91	0.18	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG
Zinc, Total	29		mg/kg	4.5	0.45	2	04/18/13 11:45	04/19/13 09:55	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG602446-1									
Aluminum, Total	ND	mg/kg	4.0	0.80	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Antimony, Total	ND	mg/kg	2.0	0.40	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Arsenic, Total	ND	mg/kg	0.40	0.12	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Barium, Total	ND	mg/kg	0.40	0.12	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Beryllium, Total	ND	mg/kg	0.20	0.02	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Cadmium, Total	ND	mg/kg	0.40	0.02	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Calcium, Total	ND	mg/kg	4.0	0.80	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Chromium, Total	ND	mg/kg	0.40	0.08	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Cobalt, Total	ND	mg/kg	0.80	0.20	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Copper, Total	ND	mg/kg	0.40	0.20	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Iron, Total	ND	mg/kg	2.0	0.80	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Lead, Total	ND	mg/kg	2.0	0.12	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Magnesium, Total	ND	mg/kg	4.0	1.6	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Manganese, Total	ND	mg/kg	0.40	0.08	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Nickel, Total	ND	mg/kg	1.0	0.16	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Potassium, Total	ND	mg/kg	100	32.	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Selenium, Total	ND	mg/kg	0.80	0.12	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Silver, Total	ND	mg/kg	0.40	0.08	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Sodium, Total	ND	mg/kg	80	32.	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Thallium, Total	ND	mg/kg	0.80	0.24	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Vanadium, Total	ND	mg/kg	0.40	0.08	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG
Zinc, Total	ND	mg/kg	2.0	0.20	1	04/18/13 11:45	04/19/13 09:38	1,6010C	MG

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG602953-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	04/22/13 07:32	04/22/13 10:03	1,7471B	MC



**Project Name:** 514 W. 27TH ST. NYC

**Lab Number:** L1306694

**Project Number:** E040

**Report Date:** 04/23/13

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

---

Digestion Method: EPA 7471B

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG602446-2 SRM Lot Number: 0518-10-02								
Aluminum, Total	111		-		29-171	-		
Antimony, Total	122		-		4-196	-		
Arsenic, Total	104		-		81-119	-		
Barium, Total	108		-		83-118	-		
Beryllium, Total	110		-		83-117	-		
Cadmium, Total	98		-		82-117	-		
Calcium, Total	91		-		83-117	-		
Chromium, Total	106		-		80-119	-		
Cobalt, Total	107		-		83-117	-		
Copper, Total	109		-		83-117	-		
Iron, Total	101		-		51-150	-		
Lead, Total	98		-		80-120	-		
Magnesium, Total	97		-		74-126	-		
Manganese, Total	97		-		83-117	-		
Nickel, Total	104		-		82-117	-		
Potassium, Total	99		-		74-126	-		
Selenium, Total	106		-		80-120	-		
Silver, Total	104		-		66-134	-		
Sodium, Total	120		-		74-127	-		
Thallium, Total	101		-		79-120	-		
Vanadium, Total	106		-		79-121	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG602446-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG602953-2 SRM Lot Number: 0518-10-02					
Mercury, Total	95	-	67-133	-	



# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02    QC Batch ID: WG602446-4    QC Sample: L1306694-01    Client ID: SB-7_0-2												
Aluminum, Total	5100	190	9600	2370	Q	-	-		75-125	-		35
Antimony, Total	30.	47.4	140	232	Q	-	-		75-125	-		35
Arsenic, Total	7.0	11.4	27	176	Q	-	-		75-125	-		35
Barium, Total	110	190	350	126	Q	-	-		75-125	-		35
Beryllium, Total	0.32J	4.74	5.2	110		-	-		75-125	-		35
Cadmium, Total	1.8	48.4	45	89		-	-		75-125	-		35
Calcium, Total	24000	949	26000	211	Q	-	-		75-125	-		35
Chromium, Total	38.	19	68	158	Q	-	-		75-125	-		35
Cobalt, Total	5.9	47.4	54	101		-	-		75-125	-		35
Copper, Total	170	23.7	230	253	Q	-	-		75-125	-		35
Iron, Total	24000	94.9	39000	15800	Q	-	-		75-125	-		35
Lead, Total	740	48.4	1200	951	Q	-	-		75-125	-		35
Magnesium, Total	2300	949	3800	158	Q	-	-		75-125	-		35
Manganese, Total	370	47.4	350	0	Q	-	-		75-125	-		35
Nickel, Total	15.	47.4	67	110		-	-		75-125	-		35
Potassium, Total	850	949	3000	227	Q	-	-		75-125	-		35
Selenium, Total	2.2	11.4	14	104		-	-		75-125	-		35
Silver, Total	0.94J	28.4	34	119		-	-		75-125	-		35
Sodium, Total	640	949	2300	175	Q	-	-		75-125	-		35
Thallium, Total	ND	11.4	10	88		-	-		75-125	-		35
Vanadium, Total	19.	47.4	73	114		-	-		75-125	-		35

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306694

Report Date: 04/23/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG602446-4 QC Sample: L1306694-01 Client ID: SB-7_0-2									
Zinc, Total	660	47.4	1400	1560	Q	-	-	75-125	- 35
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG602953-4 QC Sample: L1306674-01 Client ID: MS Sample									
Mercury, Total	0.10	0.166	0.21	66	Q	-	-	70-130	- 35

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG602446-3 QC Sample: L1306694-01 Client ID: SB-7_0-2						
Aluminum, Total	5100	7400	mg/kg	37	Q	35
Antimony, Total	30.	73	mg/kg	83	Q	35
Arsenic, Total	7.0	8.6	mg/kg	21		35
Barium, Total	110	140	mg/kg	24		35
Beryllium, Total	0.32J	0.35J	mg/kg	NC		35
Cadmium, Total	1.8	1.9	mg/kg	5		35
Calcium, Total	24000	31000	mg/kg	25		35
Chromium, Total	38.	32	mg/kg	17		35
Cobalt, Total	5.9	6.9	mg/kg	16		35
Copper, Total	170	170	mg/kg	0		35
Iron, Total	24000	31000	mg/kg	25		35
Lead, Total	740	670	mg/kg	10		35
Magnesium, Total	2300	4400	mg/kg	63	Q	35
Manganese, Total	370	480	mg/kg	26		35
Nickel, Total	15.	20	mg/kg	29		35
Potassium, Total	850	1100	mg/kg	26		35
Selenium, Total	2.2	2.8	mg/kg	24		35
Silver, Total	0.94J	0.89J	mg/kg	NC		35
Sodium, Total	640	930	mg/kg	37	Q	35

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

## Lab Duplicate Analysis

Batch Quality Control

**Lab Number:** L1306694  
**Report Date:** 04/23/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG602446-3 QC Sample: L1306694-01 Client ID: SB-7_0-2					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	19.	22	mg/kg	15	35
Zinc, Total	660	1300	mg/kg	65 Q	35
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG602953-3 QC Sample: L1306674-01 Client ID: DUP Sample					
Mercury, Total	0.10	0.04J	mg/kg	NC	35

# **INORGANICS & MISCELLANEOUS**

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

## SAMPLE RESULTS

Lab ID: L1306694-01

Date Collected: 04/16/13 13:00

Client ID: SB-7\_0-2

Date Received: 04/16/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	04/17/13 19:06	30,2540G	RD
Cyanide, Total	ND		mg/kg	1.2	0.29	1	04/17/13 13:40	04/19/13 12:17	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	1.0	0.22	1	04/17/13 22:00	04/19/13 01:51	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

### SAMPLE RESULTS

**Lab ID:** L1306694-02  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/16/13 13:25  
**Date Received:** 04/16/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	04/17/13 19:06	30,2540G	RD
Cyanide, Total	ND		mg/kg	1.2	0.27	1	04/17/13 13:40	04/19/13 12:18	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.96	0.22	1	04/17/13 22:00	04/19/13 01:52	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306694

Project Number: E040

Report Date: 04/23/13

### Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG602208-1										
Cyanide, Total	ND		mg/kg	0.98	0.23	1	04/17/13 13:40	04/19/13 12:04	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG602266-1										
Chromium, Hexavalent	ND		mg/l	0.80	0.18	1	04/17/13 22:00	04/19/13 01:49	1,7196A	JT



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306694

**Report Date:** 04/23/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG602208-4 WG602208-5								
Cyanide, Total	115		112		80-120	3		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG602266-2								
Chromium, Hexavalent	95		-		80-120	-		20

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG602208-3 WG602208-2 QC Sample: L1306694-02 Client ID: SB-7_7-9												
Cyanide, Total	ND	11	12	110		13	110		65-135	8		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG602266-5 QC Sample: L1306694-02 Client ID: SB-7_7-9												
Chromium, Hexavalent	ND	1550	1500	97		-	-		75-125	-		20

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

## Lab Duplicate Analysis

Batch Quality Control

**Lab Number:** L1306694  
**Report Date:** 04/23/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG602258-1 QC Sample: L1305549-13 Client ID: DUP Sample						
Solids, Total	81.0	81.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG602266-4 QC Sample: L1306694-02 Client ID: SB-7_7-9						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306694

Report Date: 04/23/13

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/17/2013 00:41

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306694-01A	5 gram Encore Sampler	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(2)
L1306694-01B	5 gram Encore Sampler	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(2)
L1306694-01C	5 gram Encore Sampler	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(2)
L1306694-01D	Vial MeOH preserved split	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1306694-01E	Vial Water preserved split	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1306694-01F	Vial Water preserved split	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1306694-01G	Plastic 2oz unpreserved for TS	A	N/A	4.9	Y	Absent	TS(7)
L1306694-01H	Amber 250ml unpreserved	A	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306694-01I	Amber 250ml unpreserved	A	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306694-02A	5 gram Encore Sampler	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(2)
L1306694-02B	5 gram Encore Sampler	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(2)
L1306694-02C	5 gram Encore Sampler	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306694

Report Date: 04/23/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306694-02D	Vial MeOH preserved split	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1306694-02E	Vial Water preserved split	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1306694-02F	Vial Water preserved split	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1306694-02G	Plastic 2oz unpreserved for TS	A	N/A	4.9	Y	Absent	TS(7)
L1306694-02H	Amber 250ml unpreserved	A	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306694-02I	Amber 250ml unpreserved	A	N/A	4.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

**Report Format:** DU Report with "J" Qualifiers



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

**Data Qualifiers**

due to obvious interference.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





## Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.  
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

*Drinking Water* (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; Colilert/QT SM9223B; MF-SM9222D.)

*Non-Potable Water (Inorganic Parameters:*, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

*Organic Parameters:* (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. *Microbiology Parameters:* (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

**New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. *Organic Parameters:* 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. *Organic Parameters:* SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. *Organic Parameters:* SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

**New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. *Organic Parameters:* EPA 332, 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. *Organic Parameters:* SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. *Organic Parameters:* SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

**New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

*Non-Potable Water (Inorganic Parameters:* SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. *Organic Parameters:* EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

*Solid & Hazardous Waste (Inorganic Parameters:* EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. *Organic Parameters:* EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

**North Carolina Department of the Environment and Natural Resources** Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO<sub>3</sub>-F, 353.2, 4500P-E, 4500SO<sub>4</sub>-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

**Pennsylvania Department of Environmental Protection** Certificate/Lab ID : 68-03671. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>-B, 4500NO<sub>3</sub>-F, 4500S-D, 4500SO<sub>3</sub>-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH<sub>3</sub>-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commission on Environmental Quality** Certificate/Lab ID: T104704476. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>B, 4500P-E, 4500 S<sup>2-</sup> D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID: 460195. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.

*Drinking Water* (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO<sub>3</sub>-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

**The following analytes are not included in our current NELAP/TNI Scope of Accreditation:**

**EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO<sub>2</sub> in a soil matrix, NO<sub>3</sub> in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.





## ANALYTICAL REPORT

Lab Number:	L1306810
Client:	Integral Consulting, Inc. 267 Broadway Fifth Floor New York, NY 10007
ATTN:	Alana Carroll
Phone:	(212) 962-4301
Project Name:	514 W. 27TH ST. NYC
Project Number:	E040
Report Date:	04/25/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1306810-01	FIELD BLANK	514 W. 27TH ST. NYC	04/17/13 00:00
L1306810-02	SB-22_0-2	514 W. 27TH ST. NYC	04/16/13 14:30
L1306810-03	SB-22_8-10	514 W. 27TH ST. NYC	04/16/13 14:50
L1306810-04	SB-14_0-2	514 W. 27TH ST. NYC	04/16/13 15:00
L1306810-05	SB-14_7-9	514 W. 27TH ST. NYC	04/16/13 15:10
L1306810-06	UNLABELED SAMPLES	514 W. 27TH ST. NYC	04/17/13 00:00

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Semivolatile Organics

The WG602862-2/-3 LCS/LCSD recoveries, associated with L1306810-01, are below the acceptance criteria for Benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

#### Metals

L1306810-02 through -05 have elevated detection limits for all elements, except Mercury, due to the dilutions required by the sample matrices.

The WG603051-4 MS recoveries for Aluminum (0%), Calcium (0%), Iron (0%), Magnesium (62%), Manganese (0%), Potassium (62%), and Zinc (25%), performed on L1306810-02, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG603051-4 MS recoveries, performed on L1306810-02, are outside the acceptance criteria for Copper (49%), Lead (12%), and Sodium (154%). A post digestion spike was performed with unacceptable recoveries for Copper (74%), Lead (73%), and Sodium (133%). This has been attributed to sample matrix.

The WG603051-3 Laboratory Duplicate RPDs, performed on L1306810-02, are outside the acceptance criteria for Barium (41%), Chromium (39%), Copper (55%), Lead (113%), and Zinc (76%). The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cynthia McQueen

Title: Technical Director/Representative

Date: 04/25/13

# ORGANICS

# **VOLATILES**

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-01  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/25/13 11:39  
**Analyst:** PD

**Date Collected:** 04/17/13 00:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-01  
 Client ID: FIELD BLANK  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/17/13 00:00  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-01

Date Collected: 04/17/13 00:00

Client ID: FIELD BLANK

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-02  
**Client ID:** SB-22\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/22/13 13:04  
**Analyst:** BN  
**Percent Solids:** 48%

**Date Collected:** 04/16/13 14:30  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	27	5.4	1
1,1-Dichloroethane	ND		ug/kg	4.0	0.48	1
Chloroform	ND		ug/kg	4.0	1.0	1
Carbon tetrachloride	ND		ug/kg	2.7	0.57	1
1,2-Dichloropropane	ND		ug/kg	9.4	0.62	1
Dibromochloromethane	ND		ug/kg	2.7	0.83	1
1,1,2-Trichloroethane	ND		ug/kg	4.0	0.82	1
Tetrachloroethene	22		ug/kg	2.7	0.38	1
Chlorobenzene	ND		ug/kg	2.7	0.94	1
Trichlorofluoromethane	ND		ug/kg	13	0.33	1
1,2-Dichloroethane	ND		ug/kg	2.7	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	2.7	0.30	1
Bromodichloromethane	ND		ug/kg	2.7	0.62	1
trans-1,3-Dichloropropene	ND		ug/kg	2.7	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	2.7	0.34	1
1,1-Dichloropropene	ND		ug/kg	13	1.2	1
Bromoform	ND		ug/kg	11	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.7	0.46	1
Benzene	ND		ug/kg	2.7	0.32	1
Toluene	ND		ug/kg	4.0	0.30	1
Ethylbenzene	ND		ug/kg	2.7	0.40	1
Chloromethane	ND		ug/kg	13	2.1	1
Bromomethane	ND		ug/kg	5.4	0.91	1
Vinyl chloride	ND		ug/kg	5.4	0.38	1
Chloroethane	ND		ug/kg	5.4	0.85	1
1,1-Dichloroethene	ND		ug/kg	2.7	0.55	1
trans-1,2-Dichloroethene	ND		ug/kg	4.0	0.57	1
Trichloroethene	ND		ug/kg	2.7	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	13	0.49	1
1,3-Dichlorobenzene	ND		ug/kg	13	0.49	1
1,4-Dichlorobenzene	ND		ug/kg	13	0.65	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-02

Date Collected: 04/16/13 14:30

Client ID: SB-22\_0-2

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	5.4	0.28	1
p/m-Xylene	ND		ug/kg	5.4	0.87	1
o-Xylene	ND		ug/kg	5.4	0.73	1
cis-1,2-Dichloroethene	ND		ug/kg	2.7	0.40	1
Dibromomethane	ND		ug/kg	27	0.44	1
Styrene	ND		ug/kg	5.4	0.83	1
Dichlorodifluoromethane	ND		ug/kg	27	0.59	1
Acetone	ND		ug/kg	27	8.4	1
Carbon disulfide	ND		ug/kg	27	5.4	1
2-Butanone	ND		ug/kg	27	0.96	1
Vinyl acetate	ND		ug/kg	27	1.3	1
4-Methyl-2-pentanone	ND		ug/kg	27	0.66	1
1,2,3-Trichloropropane	ND		ug/kg	27	0.60	1
2-Hexanone	ND		ug/kg	27	0.51	1
Bromochloromethane	ND		ug/kg	13	0.53	1
2,2-Dichloropropane	ND		ug/kg	13	0.61	1
1,2-Dibromoethane	ND		ug/kg	11	0.48	1
1,3-Dichloropropane	ND		ug/kg	13	0.46	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.7	0.86	1
Bromobenzene	ND		ug/kg	13	0.56	1
n-Butylbenzene	ND		ug/kg	2.7	0.53	1
sec-Butylbenzene	ND		ug/kg	2.7	0.55	1
tert-Butylbenzene	ND		ug/kg	13	1.5	1
o-Chlorotoluene	ND		ug/kg	13	0.43	1
p-Chlorotoluene	ND		ug/kg	13	0.41	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	13	2.1	1
Hexachlorobutadiene	ND		ug/kg	13	1.1	1
Isopropylbenzene	ND		ug/kg	2.7	0.45	1
p-Isopropyltoluene	ND		ug/kg	2.7	0.51	1
Naphthalene	ND		ug/kg	13	2.1	1
Acrylonitrile	ND		ug/kg	27	0.64	1
n-Propylbenzene	ND		ug/kg	2.7	0.34	1
1,2,3-Trichlorobenzene	ND		ug/kg	13	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	13	2.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	13	0.39	1
1,2,4-Trimethylbenzene	ND		ug/kg	13	1.5	1
1,4-Dioxane	ND		ug/kg	270	47.	1
1,4-Diethylbenzene	ND		ug/kg	11	0.43	1
4-Ethyltoluene	ND		ug/kg	11	0.32	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-02  
 Client ID: SB-22\_0-2  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 14:30  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

**Volatile Organics by 8260/5035 - Westborough Lab**

1,2,4,5-Tetramethylbenzene	ND		ug/kg	11	0.35	1
Ethyl ether	ND		ug/kg	13	0.72	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	13	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	125		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-03  
**Client ID:** SB-22\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/22/13 13:32  
**Analyst:** BN  
**Percent Solids:** 88%

**Date Collected:** 04/16/13 14:50  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.7	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.24	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.28	1
1,2-Dichloropropane	ND		ug/kg	4.7	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.42	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.41	1
Tetrachloroethene	ND		ug/kg	1.4	0.19	1
Chlorobenzene	ND		ug/kg	1.4	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.16	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.15	1
Bromodichloromethane	ND		ug/kg	1.4	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.62	1
Bromoform	ND		ug/kg	5.4	0.56	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.23	1
Benzene	ND		ug/kg	1.4	0.16	1
Toluene	ND		ug/kg	2.0	0.15	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	6.8	1.0	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.19	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.29	1
Trichloroethene	ND		ug/kg	1.4	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.33	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-03  
 Client ID: SB-22\_8-10  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 14:50  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.7	0.14	1
p/m-Xylene	ND		ug/kg	2.7	0.44	1
o-Xylene	ND		ug/kg	2.7	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	14	0.22	1
Styrene	ND		ug/kg	2.7	0.42	1
Dichlorodifluoromethane	ND		ug/kg	14	0.30	1
Acetone	ND		ug/kg	14	4.2	1
Carbon disulfide	ND		ug/kg	14	2.7	1
2-Butanone	ND		ug/kg	14	0.48	1
Vinyl acetate	ND		ug/kg	14	0.65	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.30	1
2-Hexanone	ND		ug/kg	14	0.25	1
Bromochloromethane	ND		ug/kg	6.8	0.27	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.30	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.28	1
n-Butylbenzene	ND		ug/kg	1.4	0.27	1
sec-Butylbenzene	ND		ug/kg	1.4	0.28	1
tert-Butylbenzene	ND		ug/kg	6.8	0.76	1
o-Chlorotoluene	ND		ug/kg	6.8	0.22	1
p-Chlorotoluene	ND		ug/kg	6.8	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	1.1	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.57	1
Isopropylbenzene	ND		ug/kg	1.4	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.26	1
Naphthalene	ND		ug/kg	6.8	1.0	1
Acrylonitrile	ND		ug/kg	14	0.32	1
n-Propylbenzene	ND		ug/kg	1.4	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.78	1
1,4-Dioxane	ND		ug/kg	140	24.	1
1,4-Diethylbenzene	ND		ug/kg	5.4	0.22	1
4-Ethyltoluene	ND		ug/kg	5.4	0.16	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-03  
 Client ID: SB-22\_8-10  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 14:50  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.18	1
Ethyl ether	ND		ug/kg	6.8	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-04  
**Client ID:** SB-14\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/22/13 13:59  
**Analyst:** BN  
**Percent Solids:** 73%

**Date Collected:** 04/16/13 15:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	3.0	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.26	1
Chloroform	ND		ug/kg	2.2	0.55	1
Carbon tetrachloride	ND		ug/kg	1.5	0.31	1
1,2-Dichloropropane	ND		ug/kg	5.2	0.34	1
Dibromochloromethane	ND		ug/kg	1.5	0.46	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.45	1
Tetrachloroethene	2.7		ug/kg	1.5	0.21	1
Chlorobenzene	ND		ug/kg	1.5	0.52	1
Trichlorofluoromethane	ND		ug/kg	7.4	0.18	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.16	1
Bromodichloromethane	ND		ug/kg	1.5	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.19	1
1,1-Dichloropropene	ND		ug/kg	7.4	0.68	1
Bromoform	ND		ug/kg	5.9	0.62	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.25	1
Benzene	ND		ug/kg	1.5	0.18	1
Toluene	ND		ug/kg	2.2	0.17	1
Ethylbenzene	ND		ug/kg	1.5	0.22	1
Chloromethane	ND		ug/kg	7.4	1.2	1
Bromomethane	ND		ug/kg	3.0	0.50	1
Vinyl chloride	ND		ug/kg	3.0	0.21	1
Chloroethane	ND		ug/kg	3.0	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.31	1
Trichloroethene	ND		ug/kg	1.5	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	7.4	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	7.4	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	7.4	0.36	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-04  
 Client ID: SB-14\_0-2  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 15:00  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.0	0.15	1
p/m-Xylene	ND		ug/kg	3.0	0.48	1
o-Xylene	ND		ug/kg	3.0	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.22	1
Dibromomethane	ND		ug/kg	15	0.24	1
Styrene	ND		ug/kg	3.0	0.46	1
Dichlorodifluoromethane	ND		ug/kg	15	0.32	1
Acetone	ND		ug/kg	15	4.6	1
Carbon disulfide	ND		ug/kg	15	3.0	1
2-Butanone	ND		ug/kg	15	0.53	1
Vinyl acetate	ND		ug/kg	15	0.71	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.36	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.33	1
2-Hexanone	ND		ug/kg	15	0.28	1
Bromochloromethane	ND		ug/kg	7.4	0.29	1
2,2-Dichloropropane	ND		ug/kg	7.4	0.33	1
1,2-Dibromoethane	ND		ug/kg	5.9	0.26	1
1,3-Dichloropropane	ND		ug/kg	7.4	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.47	1
Bromobenzene	ND		ug/kg	7.4	0.31	1
n-Butylbenzene	ND		ug/kg	1.5	0.29	1
sec-Butylbenzene	ND		ug/kg	1.5	0.30	1
tert-Butylbenzene	ND		ug/kg	7.4	0.83	1
o-Chlorotoluene	ND		ug/kg	7.4	0.24	1
p-Chlorotoluene	ND		ug/kg	7.4	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.4	1.2	1
Hexachlorobutadiene	ND		ug/kg	7.4	0.63	1
Isopropylbenzene	ND		ug/kg	1.5	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.28	1
Naphthalene	ND		ug/kg	7.4	1.1	1
Acrylonitrile	ND		ug/kg	15	0.35	1
n-Propylbenzene	ND		ug/kg	1.5	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.4	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.4	1.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.4	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.4	0.85	1
1,4-Dioxane	ND		ug/kg	150	26.	1
1,4-Diethylbenzene	ND		ug/kg	5.9	0.24	1
4-Ethyltoluene	ND		ug/kg	5.9	0.17	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-04

Date Collected: 04/16/13 15:00

Client ID: SB-14\_0-2

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.9	0.19	1
Ethyl ether	ND		ug/kg	7.4	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.4	0.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	127		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-05  
**Client ID:** SB-14\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/22/13 14:27  
**Analyst:** BN  
**Percent Solids:** 91%

**Date Collected:** 04/16/13 15:10  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.20	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.50	1
Bromoform	ND		ug/kg	4.4	0.46	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.5	0.86	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.16	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.27	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-05  
 Client ID: SB-14\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 15:10  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.12	1
p/m-Xylene	ND		ug/kg	2.2	0.36	1
o-Xylene	ND		ug/kg	2.2	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.34	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	ND		ug/kg	11	3.4	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.39	1
Vinyl acetate	ND		ug/kg	11	0.53	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.5	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.5	0.62	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.87	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.47	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.5	0.85	1
Acrylonitrile	ND		ug/kg	11	0.26	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.87	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.63	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-05

Date Collected: 04/16/13 15:10

Client ID: SB-14\_7-9

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/22/13 08:25  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-05 Batch: WG603275-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/22/13 08:25

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-05 Batch: WG603275-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/22/13 08:25  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-05 Batch: WG603275-3					
Acrylonitrile	ND		ug/kg	10	0.24
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

#### Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/22/13 08:25

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-05 Batch: WG603275-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/25/13 08:59  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG603997-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/25/13 08:59  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG603997-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/25/13 08:59  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG603997-3					
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	76.
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG603275-1 WG603275-2								
Methylene chloride	82		81		70-130	1		30
1,1-Dichloroethane	88		89		70-130	1		30
Chloroform	85		87		70-130	2		30
Carbon tetrachloride	86		88		70-130	2		30
1,2-Dichloropropane	87		87		70-130	0		30
Dibromochloromethane	106		106		70-130	0		30
2-Chloroethylvinyl ether	87		88			1		30
1,1,2-Trichloroethane	108		108		70-130	0		30
Tetrachloroethene	106		109		70-130	3		30
Chlorobenzene	106		108		70-130	2		30
Trichlorofluoromethane	88		93		70-139	6		30
1,2-Dichloroethane	86		86		70-130	0		30
1,1,1-Trichloroethane	85		88		70-130	3		30
Bromodichloromethane	85		85		70-130	0		30
trans-1,3-Dichloropropene	109		110		70-130	1		30
cis-1,3-Dichloropropene	87		88		70-130	1		30
1,1-Dichloropropene	87		90		70-130	3		30
Bromoform	115		113		70-130	2		30
1,1,2,2-Tetrachloroethane	117		115		70-130	2		30
Benzene	85		87		70-130	2		30
Toluene	102		105		70-130	3		30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG603275-1 WG603275-2								
Ethylbenzene	107		110		70-130	3		30
Chloromethane	87		88		52-130	1		30
Bromomethane	91		93		57-147	2		30
Vinyl chloride	83		88		67-130	6		30
Chloroethane	90		92		50-151	2		30
1,1-Dichloroethene	87		92		65-135	6		30
trans-1,2-Dichloroethene	85		88		70-130	3		30
Trichloroethene	82		85		70-130	4		30
1,2-Dichlorobenzene	118		117		70-130	1		30
1,3-Dichlorobenzene	118		119		70-130	1		30
1,4-Dichlorobenzene	118		118		70-130	0		30
Methyl tert butyl ether	82		81		66-130	1		30
p/m-Xylene	109		111		70-130	2		30
o-Xylene	109		110		70-130	1		30
cis-1,2-Dichloroethene	86		86		70-130	0		30
Dibromomethane	84		84		70-130	0		30
Styrene	110		111		70-130	1		30
Dichlorodifluoromethane	91		97		30-146	6		30
Acetone	78		89		54-140	13		30
Carbon disulfide	84		87		59-130	4		30
2-Butanone	99		104		70-130	5		30

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG603275-1 WG603275-2								
Vinyl acetate	89		87		70-130	2		30
4-Methyl-2-pentanone	84		82		70-130	2		30
1,2,3-Trichloropropane	119		117		68-130	2		30
2-Hexanone	108		107		70-130	1		30
Bromochloromethane	85		85		70-130	0		30
2,2-Dichloropropane	85		89		70-130	5		30
1,2-Dibromoethane	105		104		70-130	1		30
1,3-Dichloropropane	107		106		69-130	1		30
1,1,1,2-Tetrachloroethane	104		107		70-130	3		30
Bromobenzene	118		118		70-130	0		30
n-Butylbenzene	124		127		70-130	2		30
sec-Butylbenzene	121		124		70-130	2		30
tert-Butylbenzene	120		121		70-130	1		30
o-Chlorotoluene	120		121		70-130	1		30
p-Chlorotoluene	120		121		70-130	1		30
1,2-Dibromo-3-chloropropane	114		115		68-130	1		30
Hexachlorobutadiene	121		122		67-130	1		30
Isopropylbenzene	120		122		70-130	2		30
p-Isopropyltoluene	121		124		70-130	2		30
Naphthalene	118		115		70-130	3		30
Acrylonitrile	84		82		70-130	2		30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG603275-1 WG603275-2								
Isopropyl Ether	88		88		66-130	0		30
tert-Butyl Alcohol	84		82		70-130	2		30
n-Propylbenzene	121		123		70-130	2		30
1,2,3-Trichlorobenzene	121		120		70-130	1		30
1,2,4-Trichlorobenzene	119		119		70-130	0		30
1,3,5-Trimethylbenzene	121		122		70-130	1		30
1,2,4-Trimethylbenzene	121		123		70-130	2		30
Methyl Acetate	88		85		51-146	3		30
Ethyl Acetate	85		84		70-130	1		30
Acrolein	62	Q	62	Q	70-130	0		30
Cyclohexane	90		95		59-142	5		30
1,4-Dioxane	85		84		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	88		92		50-139	4		30
1,4-Diethylbenzene	119		122		70-130	2		30
4-Ethyltoluene	119		121		70-130	2		30
1,2,4,5-Tetramethylbenzene	121		121		70-130	0		30
Tetrahydrofuran	82		80		66-130	2		30
Ethyl ether	83		84		67-130	1		30
trans-1,4-Dichloro-2-butene	117		115		70-130	2		30
Methyl cyclohexane	88		93		70-130	6		30
Ethyl-Tert-Butyl-Ether	86		87		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-05 Batch: WG603275-1 WG603275-2								
Tertiary-Amyl Methyl Ether	84		83		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	118		119		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	96		97		70-130

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG603997-1 WG603997-2								
Methylene chloride	84		84		70-130	0		20
1,1-Dichloroethane	88		88		70-130	0		20
Chloroform	92		91		70-130	1		20
Carbon tetrachloride	90		88		63-132	2		20
1,2-Dichloropropane	87		88		70-130	1		20
Dibromochloromethane	95		101		63-130	6		20
1,1,2-Trichloroethane	96		100		70-130	4		20
Tetrachloroethene	101		101		70-130	0		20
Chlorobenzene	98		99		75-130	1		20

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG603997-1 WG603997-2								
Trichlorofluoromethane	89		88		62-150	1		20
1,2-Dichloroethane	91		92		70-130	1		20
1,1,1-Trichloroethane	91		89		67-130	2		20
Bromodichloromethane	90		91		67-130	1		20
trans-1,3-Dichloropropene	94		97		70-130	3		20
cis-1,3-Dichloropropene	87		88		70-130	1		20
1,1-Dichloropropene	88		86		70-130	2		20
Bromoform	91		98		54-136	7		20
1,1,2,2-Tetrachloroethane	99		104		67-130	5		20
Benzene	88		87		70-130	1		20
Toluene	98		98		70-130	0		20
Ethylbenzene	98		98		70-130	0		20
Chloromethane	81		81		64-130	0		20
Bromomethane	70		68		39-139	3		20
Vinyl chloride	80		79		55-140	1		20
Chloroethane	98		95		55-138	3		20
1,1-Dichloroethene	88		88		61-145	0		20
trans-1,2-Dichloroethene	88		86		70-130	2		20
Trichloroethene	87		86		70-130	1		20
1,2-Dichlorobenzene	101		102		70-130	1		20
1,3-Dichlorobenzene	102		100		70-130	2		20

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG603997-1 WG603997-2								
1,4-Dichlorobenzene	101		100		70-130	1		20
Methyl tert butyl ether	82		85		63-130	4		20
p/m-Xylene	98		98		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	89		89		70-130	0		20
Dibromomethane	90		92		70-130	2		20
1,2,3-Trichloropropane	103		107		64-130	4		20
Acrylonitrile	80		86		70-130	7		20
Styrene	100		99		70-130	1		20
Dichlorodifluoromethane	78		76		36-147	3		20
Acetone	95		106		58-148	11		20
Carbon disulfide	81		80		51-130	1		20
2-Butanone	75		80		63-138	6		20
Vinyl acetate	80		82		70-130	2		20
4-Methyl-2-pentanone	81		86		59-130	6		20
2-Hexanone	91		99		57-130	8		20
Bromochloromethane	93		94		70-130	1		20
2,2-Dichloropropane	92		88		63-133	4		20
1,2-Dibromoethane	95		101		70-130	6		20
1,3-Dichloropropane	96		99		70-130	3		20
1,1,1,2-Tetrachloroethane	98		99		64-130	1		20



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG603997-1 WG603997-2								
Bromobenzene	103		102		70-130	1		20
n-Butylbenzene	102		100		53-136	2		20
sec-Butylbenzene	102		100		70-130	2		20
tert-Butylbenzene	101		99		70-130	2		20
o-Chlorotoluene	95		95		70-130	0		20
p-Chlorotoluene	102		101		70-130	1		20
1,2-Dibromo-3-chloropropane	94		98		41-144	4		20
Hexachlorobutadiene	102		100		63-130	2		20
Isopropylbenzene	103		101		70-130	2		20
p-Isopropyltoluene	102		100		70-130	2		20
Naphthalene	89		95		70-130	7		20
n-Propylbenzene	102		100		69-130	2		20
1,2,3-Trichlorobenzene	93		97		70-130	4		20
1,2,4-Trichlorobenzene	97		99		70-130	2		20
1,3,5-Trimethylbenzene	101		103		64-130	2		20
1,2,4-Trimethylbenzene	103		101		70-130	2		20
1,4-Dioxane	69		94		56-162	31	Q	20
1,4-Diethylbenzene	98		98		70-130	0		20
4-Ethyltoluene	101		99		70-130	2		20
1,2,4,5-Tetramethylbenzene	98		98		70-130	0		20
Ethyl ether	85		88		59-134	3		20

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG603997-1 WG603997-2								
trans-1,4-Dichloro-2-butene	75		80		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	99		100		70-130

# SEMIVOLATILES

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-01  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/21/13 22:24  
**Analyst:** RC

**Date Collected:** 04/17/13 00:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/20/13 06:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-01

Date Collected: 04/17/13 00:00

Client ID: FIELD BLANK

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	94		41-149

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-01  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 04/22/13 18:19  
**Analyst:** AS

**Date Collected:** 04/17/13 00:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/20/13 06:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	78		41-149

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-02  
**Client ID:** SB-22\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/22/13 02:00  
**Analyst:** JB  
**Percent Solids:** 48%

**Date Collected:** 04/16/13 14:30  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 17:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	180	J	ug/kg	210	54.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	85.	1
Hexachlorobenzene	ND		ug/kg	160	48.	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	73.	1
2-Chloronaphthalene	ND		ug/kg	260	85.	1
1,2-Dichlorobenzene	ND		ug/kg	260	85.	1
1,3-Dichlorobenzene	ND		ug/kg	260	82.	1
1,4-Dichlorobenzene	ND		ug/kg	260	79.	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	69.	1
2,4-Dinitrotoluene	ND		ug/kg	260	56.	1
2,6-Dinitrotoluene	ND		ug/kg	260	66.	1
Fluoranthene	1800		ug/kg	160	48.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	260	79.	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	60.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	310	91.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	79.	1
Hexachlorobutadiene	ND		ug/kg	260	73.	1
Hexachlorocyclopentadiene	ND		ug/kg	740	170	1
Hexachloroethane	ND		ug/kg	210	47.	1
Isophorone	ND		ug/kg	230	69.	1
Naphthalene	110	J	ug/kg	260	86.	1
Nitrobenzene	ND		ug/kg	230	62.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	210	54.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	260	77.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	260	68.	1
Butyl benzyl phthalate	ND		ug/kg	260	51.	1
Di-n-butylphthalate	ND		ug/kg	260	50.	1
Di-n-octylphthalate	ND		ug/kg	260	64.	1
Diethyl phthalate	ND		ug/kg	260	55.	1
Dimethyl phthalate	ND		ug/kg	260	66.	1
Benzo(a)anthracene	880		ug/kg	160	51.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-02  
 Client ID: SB-22\_0-2  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 14:30  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	880		ug/kg	210	64.	1
Benzo(b)fluoranthene	1100		ug/kg	160	52.	1
Benzo(k)fluoranthene	490		ug/kg	160	50.	1
Chrysene	890		ug/kg	160	51.	1
Acenaphthylene	120	J	ug/kg	210	48.	1
Anthracene	370		ug/kg	160	43.	1
Benzo(ghi)perylene	700		ug/kg	210	54.	1
Fluorene	140	J	ug/kg	260	74.	1
Phenanthrene	1400		ug/kg	160	51.	1
Dibenzo(a,h)anthracene	190		ug/kg	160	50.	1
Indeno(1,2,3-cd)Pyrene	560		ug/kg	210	58.	1
Pyrene	1600		ug/kg	160	50.	1
Biphenyl	ND		ug/kg	590	86.	1
4-Chloroaniline	ND		ug/kg	260	68.	1
2-Nitroaniline	ND		ug/kg	260	73.	1
3-Nitroaniline	ND		ug/kg	260	72.	1
4-Nitroaniline	ND		ug/kg	260	70.	1
Dibenzofuran	98	J	ug/kg	260	87.	1
2-Methylnaphthalene	ND		ug/kg	310	83.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	260	80.	1
Acetophenone	ND		ug/kg	260	80.	1
2,4,6-Trichlorophenol	ND		ug/kg	160	49.	1
P-Chloro-M-Cresol	ND		ug/kg	260	75.	1
2-Chlorophenol	ND		ug/kg	260	78.	1
2,4-Dichlorophenol	ND		ug/kg	230	84.	1
2,4-Dimethylphenol	ND		ug/kg	260	77.	1
2-Nitrophenol	ND		ug/kg	560	81.	1
4-Nitrophenol	ND		ug/kg	360	84.	1
2,4-Dinitrophenol	ND		ug/kg	1200	360	1
4,6-Dinitro-o-cresol	ND		ug/kg	680	95.	1
Pentachlorophenol	ND		ug/kg	210	56.	1
Phenol	ND		ug/kg	260	77.	1
2-Methylphenol	ND		ug/kg	260	84.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	370	85.	1
2,4,5-Trichlorophenol	ND		ug/kg	260	84.	1
Benzoic Acid	ND		ug/kg	840	260	1
Benzyl Alcohol	ND		ug/kg	260	80.	1
Carbazole	ND		ug/kg	260	56.	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-02

Date Collected: 04/16/13 14:30

Client ID: SB-22\_0-2

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	98		30-120
2,4,6-Tribromophenol	128		0-136
4-Terphenyl-d14	86		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-03  
**Client ID:** SB-22\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/22/13 02:27  
**Analyst:** JB  
**Percent Solids:** 88%

**Date Collected:** 04/16/13 14:50  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 17:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	430		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	100	J	ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	220		ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-03  
 Client ID: SB-22\_8-10  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 14:50  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	310		ug/kg	150	46.	1
Benzo(b)fluoranthene	330		ug/kg	110	38.	1
Benzo(k)fluoranthene	130		ug/kg	110	36.	1
Chrysene	240		ug/kg	110	37.	1
Acenaphthylene	45	J	ug/kg	150	35.	1
Anthracene	100	J	ug/kg	110	31.	1
Benzo(ghi)perylene	230		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	280		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	64	J	ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	210		ug/kg	150	42.	1
Pyrene	390		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	55	J	ug/kg	190	40.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-03

Date Collected: 04/16/13 14:50

Client ID: SB-22\_8-10

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	131		0-136
4-Terphenyl-d14	84		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-04  
**Client ID:** SB-14\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/22/13 02:55  
**Analyst:** JB  
**Percent Solids:** 73%

**Date Collected:** 04/16/13 15:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 17:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	110	J	ug/kg	180	46.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	74.	1
Hexachlorobenzene	ND		ug/kg	140	42.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	63.	1
2-Chloronaphthalene	ND		ug/kg	220	73.	1
1,2-Dichlorobenzene	ND		ug/kg	220	74.	1
1,3-Dichlorobenzene	ND		ug/kg	220	71.	1
1,4-Dichlorobenzene	ND		ug/kg	220	68.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	49.	1
2,6-Dinitrotoluene	ND		ug/kg	220	58.	1
Fluoranthene	940		ug/kg	140	41.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	68.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	52.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	79.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	68.	1
Hexachlorobutadiene	ND		ug/kg	220	64.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	140	1
Hexachloroethane	ND		ug/kg	180	41.	1
Isophorone	ND		ug/kg	200	60.	1
Naphthalene	85	J	ug/kg	220	75.	1
Nitrobenzene	ND		ug/kg	200	54.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	180	47.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	67.	1
Bis(2-Ethylhexyl)phthalate	670		ug/kg	220	59.	1
Butyl benzyl phthalate	ND		ug/kg	220	44.	1
Di-n-butylphthalate	ND		ug/kg	220	43.	1
Di-n-octylphthalate	ND		ug/kg	220	55.	1
Diethyl phthalate	ND		ug/kg	220	48.	1
Dimethyl phthalate	ND		ug/kg	220	57.	1
Benzo(a)anthracene	500		ug/kg	140	44.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-04  
 Client ID: SB-14\_0-2  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 15:00  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	580		ug/kg	180	55.	1
Benzo(b)fluoranthene	760		ug/kg	140	46.	1
Benzo(k)fluoranthene	230		ug/kg	140	43.	1
Chrysene	530		ug/kg	140	44.	1
Acenaphthylene	ND		ug/kg	180	42.	1
Anthracene	230		ug/kg	140	37.	1
Benzo(ghi)perylene	490		ug/kg	180	47.	1
Fluorene	100	J	ug/kg	220	64.	1
Phenanthrene	740		ug/kg	140	44.	1
Dibenzo(a,h)anthracene	140		ug/kg	140	44.	1
Indeno(1,2,3-cd)Pyrene	420		ug/kg	180	50.	1
Pyrene	830		ug/kg	140	44.	1
Biphenyl	ND		ug/kg	510	74.	1
4-Chloroaniline	ND		ug/kg	220	59.	1
2-Nitroaniline	ND		ug/kg	220	64.	1
3-Nitroaniline	ND		ug/kg	220	62.	1
4-Nitroaniline	ND		ug/kg	220	61.	1
Dibenzofuran	82	J	ug/kg	220	75.	1
2-Methylnaphthalene	ND		ug/kg	270	72.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	70.	1
Acetophenone	ND		ug/kg	220	70.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	42.	1
P-Chloro-M-Cresol	ND		ug/kg	220	65.	1
2-Chlorophenol	ND		ug/kg	220	68.	1
2,4-Dichlorophenol	ND		ug/kg	200	73.	1
2,4-Dimethylphenol	ND		ug/kg	220	67.	1
2-Nitrophenol	ND		ug/kg	490	70.	1
4-Nitrophenol	ND		ug/kg	320	73.	1
2,4-Dinitrophenol	ND		ug/kg	1100	310	1
4,6-Dinitro-o-cresol	ND		ug/kg	580	82.	1
Pentachlorophenol	ND		ug/kg	180	48.	1
Phenol	ND		ug/kg	220	67.	1
2-Methylphenol	ND		ug/kg	220	72.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	74.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	73.	1
Benzoic Acid	ND		ug/kg	730	230	1
Benzyl Alcohol	ND		ug/kg	220	69.	1
Carbazole	110	J	ug/kg	220	48.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-04

Date Collected: 04/16/13 15:00

Client ID: SB-14\_0-2

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	126		0-136
4-Terphenyl-d14	81		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-05  
**Client ID:** SB-14\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/20/13 16:31  
**Analyst:** JB  
**Percent Solids:** 91%

**Date Collected:** 04/16/13 15:10  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 17:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	37.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	59.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	59.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	1
1,3-Dichlorobenzene	ND		ug/kg	180	57.	1
1,4-Dichlorobenzene	ND		ug/kg	180	55.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	46.	1
Fluoranthene	ND		ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	ND		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1
Benzo(a)anthracene	ND		ug/kg	110	36.	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-05  
 Client ID: SB-14\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/16/13 15:10  
 Date Received: 04/17/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	37.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	140	34.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	140	38.	1
Fluorene	ND		ug/kg	180	52.	1
Phenanthrene	ND		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	40.	1
Pyrene	ND		ug/kg	110	35.	1
Biphenyl	ND		ug/kg	410	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	ND		ug/kg	180	60.	1
2-Methylnaphthalene	ND		ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	ND		ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	56.	1
4-Nitrophenol	ND		ug/kg	250	59.	1
2,4-Dinitrophenol	ND		ug/kg	870	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	66.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	58.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	59.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	39.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

Lab ID: L1306810-05

Date Collected: 04/16/13 15:10

Client ID: SB-14\_7-9

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	85		0-136
4-Terphenyl-d14	76		18-120

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/20/13 14:43  
 Analyst: JB

Extraction Method: EPA 3546  
 Extraction Date: 04/19/13 17:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05 Batch: WG602790-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	98	32.

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/20/13 14:43  
 Analyst: JB

Extraction Method: EPA 3546  
 Extraction Date: 04/19/13 17:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05 Batch: WG602790-1					
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	350	51.
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	790	220
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**Method Blank Analysis**  
**Batch Quality Control**Analytical Method: 1,8270D  
Analytical Date: 04/20/13 14:43  
Analyst: JBExtraction Method: EPA 3546  
Extraction Date: 04/19/13 17:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05 Batch: WG602790-1					
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	74		0-136
4-Terphenyl-d14	81		18-120

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM  
 Analytical Date: 04/22/13 16:26  
 Analyst: AS

Extraction Method: EPA 3510C  
 Extraction Date: 04/20/13 06:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG602861-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**Method Blank Analysis**  
**Batch Quality Control**Analytical Method: 1,8270D-SIM  
Analytical Date: 04/22/13 16:26  
Analyst: ASExtraction Method: EPA 3510C  
Extraction Date: 04/20/13 06:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG602861-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	85		41-149

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/21/13 16:59  
 Analyst: RC

Extraction Method: EPA 3510C  
 Extraction Date: 04/20/13 06:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG602862-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40
Hexachlorocyclopentadiene	ND		ug/l	20	2.1
Isophorone	ND		ug/l	5.0	0.35
Nitrobenzene	ND		ug/l	2.0	0.50
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	0.46
Di-n-butylphthalate	ND		ug/l	5.0	0.54
Di-n-octylphthalate	ND		ug/l	5.0	0.53
Diethyl phthalate	ND		ug/l	5.0	0.45
Dimethyl phthalate	ND		ug/l	5.0	0.45
Biphenyl	ND		ug/l	2.0	0.50
4-Chloroaniline	ND		ug/l	5.0	0.83
2-Nitroaniline	ND		ug/l	5.0	0.40
3-Nitroaniline	ND		ug/l	5.0	0.59
4-Nitroaniline	ND		ug/l	5.0	0.55
Dibenzofuran	ND		ug/l	2.0	0.47
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65
Acetophenone	ND		ug/l	5.0	0.55





Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/21/13 16:59  
 Analyst: RC

Extraction Method: EPA 3510C  
 Extraction Date: 04/20/13 06:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG602862-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50
2-Chlorophenol	ND		ug/l	2.0	0.34
2,4-Dichlorophenol	ND		ug/l	5.0	0.43
2,4-Dimethylphenol	ND		ug/l	5.0	1.2
2-Nitrophenol	ND		ug/l	10	0.48
4-Nitrophenol	ND		ug/l	10	1.2
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59
Phenol	ND		ug/l	5.0	0.26
2-Methylphenol	ND		ug/l	5.0	0.53
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.53

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	78		41-149

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG602790-2 WG602790-3								
Acenaphthene	86		75		31-137	14		50
1,2,4-Trichlorobenzene	87		66		38-107	27		50
Hexachlorobenzene	90		91		40-140	1		50
Bis(2-chloroethyl)ether	86		60		40-140	36		50
2-Chloronaphthalene	86		69		40-140	22		50
1,2-Dichlorobenzene	84		60		40-140	33		50
1,3-Dichlorobenzene	88		62		40-140	35		50
1,4-Dichlorobenzene	87		62		28-104	34		50
3,3'-Dichlorobenzidine	98		81		40-140	19		50
2,4-Dinitrotoluene	88		81		28-89	8		50
2,6-Dinitrotoluene	96		93		40-140	3		50
Fluoranthene	93		94		40-140	1		50
4-Chlorophenyl phenyl ether	88		83		40-140	6		50
4-Bromophenyl phenyl ether	93		88		40-140	6		50
Bis(2-chloroisopropyl)ether	83		60		40-140	32		50
Bis(2-chloroethoxy)methane	83		60		40-117	32		50
Hexachlorobutadiene	91		67		40-140	30		50
Hexachlorocyclopentadiene	108		84		40-140	25		50
Hexachloroethane	85		62		40-140	31		50
Isophorone	85		63		40-140	30		50
Naphthalene	85		64		40-140	28		50

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG602790-2 WG602790-3								
Nitrobenzene	86		65		40-140	28		50
NitrosoDiPhenylAmine(NDPA)/DPA	91		92			1		50
n-Nitrosodi-n-propylamine	84		63		32-121	29		50
Bis(2-Ethylhexyl)phthalate	102		98		40-140	4		50
Butyl benzyl phthalate	104		101		40-140	3		50
Di-n-butylphthalate	98		97		40-140	1		50
Di-n-octylphthalate	104		99		40-140	5		50
Diethyl phthalate	92		89		40-140	3		50
Dimethyl phthalate	88		82		40-140	7		50
Benzo(a)anthracene	94		92		40-140	2		50
Benzo(a)pyrene	94		90		40-140	4		50
Benzo(b)fluoranthene	88		85		40-140	3		50
Benzo(k)fluoranthene	92		86		40-140	7		50
Chrysene	91		89		40-140	2		50
Acenaphthylene	92		76		40-140	19		50
Anthracene	91		91		40-140	0		50
Benzo(ghi)perylene	89		86		40-140	3		50
Fluorene	89		83		40-140	7		50
Phenanthrene	88		85		40-140	3		50
Dibenzo(a,h)anthracene	93		89		40-140	4		50
Indeno(1,2,3-cd)Pyrene	95		90		40-140	5		50

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG602790-2 WG602790-3								
Pyrene	95		92		35-142	3		50
Biphenyl	85		70			19		50
4-Chloroaniline	90		64		40-140	34		50
2-Nitroaniline	104		94		47-134	10		50
3-Nitroaniline	92		79		26-129	15		50
4-Nitroaniline	101		99		41-125	2		50
Dibenzofuran	85		76		40-140	11		50
2-Methylnaphthalene	90		67		40-140	29		50
1,2,4,5-Tetrachlorobenzene	88		69		40-117	24		50
Acetophenone	88		65		14-144	30		50
2,4,6-Trichlorophenol	96		81		30-130	17		50
P-Chloro-M-Cresol	97		83		26-103	16		50
2-Chlorophenol	94		67		25-102	34		50
2,4-Dichlorophenol	99		73		30-130	30		50
2,4-Dimethylphenol	96		71		30-130	30		50
2-Nitrophenol	98		72		30-130	31		50
4-Nitrophenol	102		95		11-114	7		50
2,4-Dinitrophenol	76		73		4-130	4		50
4,6-Dinitro-o-cresol	100		100		10-130	0		50
Pentachlorophenol	88		86		17-109	2		50
Phenol	91	Q	64		26-90	35		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG602790-2 WG602790-3								
2-Methylphenol	89		63		30-130.	34		50
3-Methylphenol/4-Methylphenol	91		68		30-130	29		50
2,4,5-Trichlorophenol	94		88		30-130	7		50
Benzoic Acid	6		4			34		50
Benzyl Alcohol	83		61		40-140	31		50
Carbazole	92		89		54-128	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	97		69		25-120
Phenol-d6	95		67		10-120
Nitrobenzene-d5	85		62		23-120
2-Fluorobiphenyl	88		68		30-120
2,4,6-Tribromophenol	99		94		0-136
4-Terphenyl-d14	96		92		18-120

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG602861-2 WG602861-3								
Acenaphthene	73		72		37-111	1		40
2-Chloronaphthalene	72		72		40-140	0		40
Fluoranthene	81		84		40-140	4		40
Hexachlorobutadiene	62		63		40-140	2		40
Naphthalene	66		68		40-140	3		40
Benzo(a)anthracene	92		92		40-140	0		40
Benzo(a)pyrene	81		93		40-140	14		40
Benzo(b)fluoranthene	83		92		40-140	10		40
Benzo(k)fluoranthene	90		99		40-140	10		40
Chrysene	88		89		40-140	1		40
Acenaphthylene	75		78		40-140	4		40
Anthracene	82		87		40-140	6		40
Benzo(ghi)perylene	59		84		40-140	35		40
Fluorene	88		87		40-140	1		40
Phenanthrene	66		69		40-140	4		40
Dibenzo(a,h)anthracene	67		89		40-140	28		40
Indeno(1,2,3-cd)Pyrene	64		88		40-140	32		40
Pyrene	79		80		26-127	1		40
2-Methylnaphthalene	69		70		40-140	1		40
Pentachlorophenol	74		75		9-103	1		40
Hexachlorobenzene	67		68		40-140	1		40

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG602861-2 WG602861-3								
Hexachloroethane	65		65		40-140	0		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	45		47		21-120
Phenol-d6	34		36		10-120
Nitrobenzene-d5	76		80		23-120
2-Fluorobiphenyl	72		77		15-120
2,4,6-Tribromophenol	95		89		10-120
4-Terphenyl-d14	79		83		41-149

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG602862-2 WG602862-3								
1,2,4-Trichlorobenzene	56		58		39-98	4		30
Bis(2-chloroethyl)ether	57		59		40-140	3		30
1,2-Dichlorobenzene	50		52		40-140	4		30
1,3-Dichlorobenzene	49		49		40-140	0		30
1,4-Dichlorobenzene	50		50		36-97	0		30
3,3'-Dichlorobenzidine	50		56		40-140	11		30
2,4-Dinitrotoluene	87		86		24-96	1		30
2,6-Dinitrotoluene	80		81		40-140	1		30
4-Chlorophenyl phenyl ether	82		82		40-140	0		30
4-Bromophenyl phenyl ether	85		85		40-140	0		30
Bis(2-chloroisopropyl)ether	54		56		40-140	4		30
Bis(2-chloroethoxy)methane	61		64		40-140	5		30
Hexachlorocyclopentadiene	47		51		40-140	8		30
Isophorone	58		62		40-140	7		30
Nitrobenzene	66		70		40-140	6		30
NitrosoDiPhenylAmine(NDPA)/DPA	81		80		40-140	1		30
n-Nitrosodi-n-propylamine	59		63		29-132	7		30
Bis(2-Ethylhexyl)phthalate	87		88		40-140	1		30
Butyl benzyl phthalate	86		88		40-140	2		30
Di-n-butylphthalate	87		89		40-140	2		30
Di-n-octylphthalate	84		82		40-140	2		30



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG602862-2 WG602862-3								
Diethyl phthalate	86		85		40-140	1		30
Dimethyl phthalate	85		84		40-140	1		30
Biphenyl	74		74			0		30
4-Chloroaniline	68		73		40-140	7		30
2-Nitroaniline	77		77		52-143	0		30
3-Nitroaniline	52		54		25-145	4		30
4-Nitroaniline	82		84		51-143	2		30
Dibenzofuran	79		80		40-140	1		30
1,2,4,5-Tetrachlorobenzene	72		71		2-134	1		30
Acetophenone	69		73		39-129	6		30
2,4,6-Trichlorophenol	82		83		30-130	1		30
P-Chloro-M-Cresol	80		82		23-97	2		30
2-Chlorophenol	61		64		27-123	5		30
2,4-Dichlorophenol	80		83		30-130	4		30
2,4-Dimethylphenol	72		75		30-130	4		30
2-Nitrophenol	61		67		30-130	9		30
4-Nitrophenol	53		51		10-80	4		30
2,4-Dinitrophenol	70		67		20-130	4		30
4,6-Dinitro-o-cresol	85		82		20-164	4		30
Phenol	26		29		12-110	11		30
2-Methylphenol	55		58		30-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG602862-2 WG602862-3								
3-Methylphenol/4-Methylphenol	53		56		30-130	6		30
2,4,5-Trichlorophenol	86		87		30-130	1		30
Benzoic Acid	0		0			NC		30
Benzyl Alcohol	55		58			5		30
Carbazole	84		86		55-144	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	41		44		21-120
Phenol-d6	29		31		10-120
Nitrobenzene-d5	62		66		23-120
2-Fluorobiphenyl	75		76		15-120
2,4,6-Tribromophenol	108		111		10-120
4-Terphenyl-d14	88		89		41-149

# PCBS

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-01  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 03:03  
**Analyst:** KB

**Date Collected:** 04/17/13 00:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/21/13 11:11  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.083	0.055	1
Aroclor 1221	ND		ug/l	0.083	0.053	1
Aroclor 1232	ND		ug/l	0.083	0.031	1
Aroclor 1242	ND		ug/l	0.083	0.060	1
Aroclor 1248	ND		ug/l	0.083	0.051	1
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	97		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	64		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-02  
**Client ID:** SB-22\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 19:19  
**Analyst:** KB  
**Percent Solids:** 48%

**Date Collected:** 04/16/13 14:30  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 15:58  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/20/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	66.2	13.1	1
Aroclor 1221	ND		ug/kg	66.2	20.0	1
Aroclor 1232	ND		ug/kg	66.2	14.1	1
Aroclor 1242	ND		ug/kg	66.2	12.6	1
Aroclor 1248	ND		ug/kg	66.2	8.01	1
Aroclor 1254	ND		ug/kg	66.2	10.4	1
Aroclor 1260	ND		ug/kg	66.2	11.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	55		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-03  
**Client ID:** SB-22\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 19:36  
**Analyst:** KB  
**Percent Solids:** 88%

**Date Collected:** 04/16/13 14:50  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 15:58  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/20/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.8	7.08	1
Aroclor 1221	ND		ug/kg	35.8	10.8	1
Aroclor 1232	ND		ug/kg	35.8	7.61	1
Aroclor 1242	ND		ug/kg	35.8	6.80	1
Aroclor 1248	ND		ug/kg	35.8	4.33	1
Aroclor 1254	ND		ug/kg	35.8	5.65	1
Aroclor 1260	ND		ug/kg	35.8	6.22	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	58		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-04  
**Client ID:** SB-14\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 19:53  
**Analyst:** KB  
**Percent Solids:** 73%

**Date Collected:** 04/16/13 15:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 15:58  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/20/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	42.8	8.46	1
Aroclor 1221	ND		ug/kg	42.8	12.9	1
Aroclor 1232	ND		ug/kg	42.8	9.10	1
Aroclor 1242	ND		ug/kg	42.8	8.13	1
Aroclor 1248	ND		ug/kg	42.8	5.18	1
Aroclor 1254	153		ug/kg	42.8	6.76	1
Aroclor 1260	93.2		ug/kg	42.8	7.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	40		30-150
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	50		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-05  
**Client ID:** SB-14\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 20:10  
**Analyst:** KB  
**Percent Solids:** 91%

**Date Collected:** 04/16/13 15:10  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 15:58  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/20/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	34.7	6.86	1
Aroclor 1221	ND		ug/kg	34.7	10.5	1
Aroclor 1232	ND		ug/kg	34.7	7.38	1
Aroclor 1242	ND		ug/kg	34.7	6.59	1
Aroclor 1248	ND		ug/kg	34.7	4.20	1
Aroclor 1254	ND		ug/kg	34.7	5.47	1
Aroclor 1260	ND		ug/kg	34.7	6.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	49		30-150



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 04/22/13 18:27  
 Analyst: KB

Extraction Method: EPA 3546  
 Extraction Date: 04/19/13 15:58  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/20/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/20/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02-05 Batch: WG602760-1					
Aroclor 1016	ND		ug/kg	32.9	6.50
Aroclor 1221	ND		ug/kg	32.9	9.93
Aroclor 1232	ND		ug/kg	32.9	6.99
Aroclor 1242	ND		ug/kg	32.9	6.25
Aroclor 1248	ND		ug/kg	32.9	3.98
Aroclor 1254	ND		ug/kg	32.9	5.19
Aroclor 1260	ND		ug/kg	32.9	5.71

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	93		30-150
Decachlorobiphenyl	83		30-150
2,4,5,6-Tetrachloro-m-xylene	94		30-150
Decachlorobiphenyl	72		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 04/23/13 02:23  
 Analyst: KB

Extraction Method: EPA 3510C  
 Extraction Date: 04/21/13 11:11  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/22/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG602927-1					
Aroclor 1016	ND		ug/l	0.083	0.055
Aroclor 1221	ND		ug/l	0.083	0.053
Aroclor 1232	ND		ug/l	0.083	0.031
Aroclor 1242	ND		ug/l	0.083	0.060
Aroclor 1248	ND		ug/l	0.083	0.051
Aroclor 1254	ND		ug/l	0.083	0.034
Aroclor 1260	ND		ug/l	0.083	0.032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	89		30-150
Decachlorobiphenyl	104		30-150
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	98		30-150

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02-05 Batch: WG602760-2 WG602760-3								
Aroclor 1016	96		103		40-140	7		50
Aroclor 1260	90		99		40-140	10		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	94		93		30-150
Decachlorobiphenyl	85		91		30-150
2,4,5,6-Tetrachloro-m-xylene	93		95		30-150
Decachlorobiphenyl	74		82		30-150

Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG602927-2 WG602927-3								
Aroclor 1016	106		107		40-140	1		50
Aroclor 1260	100		104		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	115		113		30-150
Decachlorobiphenyl	123		124		30-150
2,4,5,6-Tetrachloro-m-xylene	98		96		30-150
Decachlorobiphenyl	114		115		30-150

# PESTICIDES

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-01  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 12:59  
**Analyst:** BW

**Date Collected:** 04/17/13 00:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/20/13 14:26  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	0.005	1
Lindane	ND		ug/l	0.020	0.004	1
Alpha-BHC	ND		ug/l	0.020	0.004	1
Beta-BHC	ND		ug/l	0.020	0.006	1
Heptachlor	ND		ug/l	0.020	0.003	1
Aldrin	ND		ug/l	0.020	0.002	1
Heptachlor epoxide	ND		ug/l	0.020	0.004	1
Endrin	ND		ug/l	0.040	0.004	1
Endrin ketone	ND		ug/l	0.040	0.005	1
Dieldrin	ND		ug/l	0.040	0.004	1
4,4'-DDE	ND		ug/l	0.040	0.004	1
4,4'-DDD	ND		ug/l	0.040	0.005	1
4,4'-DDT	ND		ug/l	0.040	0.004	1
Endosulfan I	ND		ug/l	0.020	0.003	1
Endosulfan II	ND		ug/l	0.040	0.005	1
Endosulfan sulfate	ND		ug/l	0.040	0.005	1
Methoxychlor	ND		ug/l	0.200	0.007	1
Toxaphene	ND		ug/l	0.200	0.063	1
cis-Chlordane	ND		ug/l	0.020	0.007	1
trans-Chlordane	ND		ug/l	0.020	0.006	1
Chlordane	ND		ug/l	0.200	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	115		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-02  
**Client ID:** SB-22\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 11:30  
**Analyst:** BW  
**Percent Solids:** 48%

**Date Collected:** 04/16/13 14:30  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 15:59  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	3.24	0.634	1
Lindane	ND		ug/kg	1.35	0.603	1
Alpha-BHC	ND		ug/kg	1.35	0.383	1
Beta-BHC	ND		ug/kg	3.24	1.23	1
Heptachlor	ND		ug/kg	1.62	0.725	1
Aldrin	ND		ug/kg	3.24	1.14	1
Heptachlor epoxide	ND		ug/kg	6.07	1.82	1
Endrin	ND		ug/kg	1.35	0.553	1
Endrin ketone	ND		ug/kg	3.24	0.833	1
Dieldrin	ND		ug/kg	2.02	1.01	1
4,4'-DDE	ND		ug/kg	3.24	0.748	1
4,4'-DDD	ND		ug/kg	3.24	1.15	1
4,4'-DDT	ND		ug/kg	6.07	2.60	1
Endosulfan I	ND		ug/kg	3.24	0.764	1
Endosulfan II	ND		ug/kg	3.24	1.08	1
Endosulfan sulfate	ND		ug/kg	1.35	0.616	1
Methoxychlor	ND		ug/kg	6.07	1.89	1
Toxaphene	ND		ug/kg	60.7	17.0	1
cis-Chlordane	ND		ug/kg	4.04	1.13	1
trans-Chlordane	ND		ug/kg	4.04	1.07	1
Chlordane	ND		ug/kg	26.3	10.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	111		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-03  
**Client ID:** SB-22\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 11:43  
**Analyst:** BW  
**Percent Solids:** 88%

**Date Collected:** 04/16/13 14:50  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 15:59  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.72	0.336	1
Lindane	ND		ug/kg	0.715	0.319	1
Alpha-BHC	ND		ug/kg	0.715	0.203	1
Beta-BHC	ND		ug/kg	1.72	0.650	1
Heptachlor	ND		ug/kg	0.858	0.384	1
Aldrin	ND		ug/kg	1.72	0.604	1
Heptachlor epoxide	1.04	J	ug/kg	3.22	0.965	1
Endrin	ND		ug/kg	0.715	0.293	1
Endrin ketone	ND		ug/kg	1.72	0.442	1
Dieldrin	ND		ug/kg	1.07	0.536	1
4,4'-DDE	ND		ug/kg	1.72	0.397	1
4,4'-DDD	ND		ug/kg	1.72	0.612	1
4,4'-DDT	ND		ug/kg	3.22	1.38	1
Endosulfan I	ND		ug/kg	1.72	0.405	1
Endosulfan II	ND		ug/kg	1.72	0.573	1
Endosulfan sulfate	ND		ug/kg	0.715	0.327	1
Methoxychlor	ND		ug/kg	3.22	1.00	1
Toxaphene	ND		ug/kg	32.2	9.00	1
cis-Chlordane	ND		ug/kg	2.14	0.597	1
trans-Chlordane	ND		ug/kg	2.14	0.566	1
Chlordane	ND		ug/kg	13.9	5.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	128		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-04  
**Client ID:** SB-14\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 11:55  
**Analyst:** BW  
**Percent Solids:** 73%

**Date Collected:** 04/16/13 15:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 15:59  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	2.09	0.410	1
Lindane	ND		ug/kg	0.872	0.390	1
Alpha-BHC	ND		ug/kg	0.872	0.248	1
Beta-BHC	ND		ug/kg	2.09	0.794	1
Heptachlor	ND		ug/kg	1.05	0.469	1
Aldrin	ND		ug/kg	2.09	0.737	1
Heptachlor epoxide	ND		ug/kg	3.92	1.18	1
Endrin	ND		ug/kg	0.872	0.358	1
Endrin ketone	ND		ug/kg	2.09	0.539	1
Dieldrin	ND		ug/kg	1.31	0.654	1
4,4'-DDE	ND		ug/kg	2.09	0.484	1
4,4'-DDT	ND		ug/kg	3.92	1.68	1
Endosulfan I	ND		ug/kg	2.09	0.495	1
Endosulfan II	ND		ug/kg	2.09	0.700	1
Endosulfan sulfate	ND		ug/kg	0.872	0.399	1
Methoxychlor	ND		ug/kg	3.92	1.22	1
Toxaphene	ND		ug/kg	39.2	11.0	1
cis-Chlordane	ND		ug/kg	2.62	0.729	1
trans-Chlordane	ND		ug/kg	2.62	0.691	1
Chlordane	ND		ug/kg	17.0	6.94	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	100		30-150	B



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-04  
**Client ID:** SB-14\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 11:55  
**Analyst:** BW  
**Percent Solids:** 73%

**Date Collected:** 04/16/13 15:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 15:59  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
4,4'-DDD	5.93		ug/kg	2.09	0.747	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	100		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1306810**Project Number:** E040**Report Date:** 04/25/13**SAMPLE RESULTS**

**Lab ID:** L1306810-05  
**Client ID:** SB-14\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 12:08  
**Analyst:** BW  
**Percent Solids:** 91%

**Date Collected:** 04/16/13 15:10  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/19/13 15:59  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.66	0.326	1
Lindane	ND		ug/kg	0.694	0.310	1
Alpha-BHC	ND		ug/kg	0.694	0.197	1
Beta-BHC	ND		ug/kg	1.66	0.632	1
Heptachlor	ND		ug/kg	0.833	0.373	1
Aldrin	ND		ug/kg	1.66	0.586	1
Heptachlor epoxide	ND		ug/kg	3.12	0.937	1
Endrin	ND		ug/kg	0.694	0.284	1
Endrin ketone	ND		ug/kg	1.66	0.429	1
Dieldrin	ND		ug/kg	1.04	0.520	1
4,4'-DDE	ND		ug/kg	1.66	0.385	1
4,4'-DDD	ND		ug/kg	1.66	0.594	1
4,4'-DDT	ND		ug/kg	3.12	1.34	1
Endosulfan I	ND		ug/kg	1.66	0.394	1
Endosulfan II	ND		ug/kg	1.66	0.557	1
Endosulfan sulfate	ND		ug/kg	0.694	0.317	1
Methoxychlor	ND		ug/kg	3.12	0.972	1
Toxaphene	ND		ug/kg	31.2	8.74	1
cis-Chlordane	ND		ug/kg	2.08	0.580	1
trans-Chlordane	ND		ug/kg	2.08	0.550	1
Chlordane	ND		ug/kg	13.5	5.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	109		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	108		30-150	B

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 04/23/13 10:39  
 Analyst: BW

Extraction Method: EPA 3546  
 Extraction Date: 04/19/13 15:59  
 Cleanup Method1: EPA 3620B  
 Cleanup Date1: 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-05 Batch: WG602761-1					
Delta-BHC	ND		ug/kg	1.58	0.310
Lindane	ND		ug/kg	0.659	0.295
Alpha-BHC	ND		ug/kg	0.659	0.187
Beta-BHC	ND		ug/kg	1.58	0.600
Heptachlor	ND		ug/kg	0.791	0.355
Aldrin	ND		ug/kg	1.58	0.557
Heptachlor epoxide	ND		ug/kg	2.97	0.890
Endrin	ND		ug/kg	0.659	0.270
Endrin ketone	ND		ug/kg	1.58	0.407
Dieldrin	ND		ug/kg	0.989	0.494
4,4'-DDE	ND		ug/kg	1.58	0.366
4,4'-DDD	ND		ug/kg	1.58	0.564
4,4'-DDT	ND		ug/kg	2.97	1.27
Endosulfan I	ND		ug/kg	1.58	0.374
Endosulfan II	ND		ug/kg	1.58	0.529
Endosulfan sulfate	ND		ug/kg	0.659	0.301
Methoxychlor	ND		ug/kg	2.97	0.923
Toxaphene	ND		ug/kg	29.7	8.30
cis-Chlordane	ND		ug/kg	1.98	0.551
trans-Chlordane	ND		ug/kg	1.98	0.522
Chlordane	ND		ug/kg	12.8	5.24

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	138		30-150	B

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 04/23/13 12:21  
 Analyst: BW

Extraction Method: EPA 3510C  
 Extraction Date: 04/20/13 14:26  
 Cleanup Method1: EPA 3620B  
 Cleanup Date1: 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG602892-1					
Delta-BHC	ND		ug/l	0.020	0.005
Lindane	ND		ug/l	0.020	0.004
Alpha-BHC	ND		ug/l	0.020	0.004
Beta-BHC	ND		ug/l	0.020	0.006
Heptachlor	ND		ug/l	0.020	0.003
Aldrin	ND		ug/l	0.020	0.002
Heptachlor epoxide	ND		ug/l	0.020	0.004
Endrin	ND		ug/l	0.040	0.004
Endrin ketone	ND		ug/l	0.040	0.005
Dieldrin	ND		ug/l	0.040	0.004
4,4'-DDE	ND		ug/l	0.040	0.004
4,4'-DDD	ND		ug/l	0.040	0.005
4,4'-DDT	ND		ug/l	0.040	0.004
Endosulfan I	ND		ug/l	0.020	0.003
Endosulfan II	ND		ug/l	0.040	0.005
Endosulfan sulfate	ND		ug/l	0.040	0.005
Methoxychlor	ND		ug/l	0.200	0.007
Toxaphene	ND		ug/l	0.200	0.063
cis-Chlordane	ND		ug/l	0.020	0.007
trans-Chlordane	ND		ug/l	0.020	0.006
Chlordane	ND		ug/l	0.200	0.046

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	114		30-150	B

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-05 Batch: WG602761-2 WG602761-3								
Delta-BHC	85		83		30-150	2		30
Lindane	95		92		30-150	3		30
Alpha-BHC	96		93		30-150	3		30
Beta-BHC	94		91		30-150	3		30
Heptachlor	100		97		30-150	3		30
Aldrin	102		99		30-150	3		30
Heptachlor epoxide	100		98		30-150	2		30
Endrin	108		108		30-150	0		30
Endrin ketone	83		82		30-150	1		30
Dieldrin	101		101		30-150	0		30
4,4'-DDE	98		97		30-150	1		30
4,4'-DDD	92		92		30-150	0		30
4,4'-DDT	98		97		30-150	1		30
Endosulfan I	99		98		30-150	1		30
Endosulfan II	88		88		30-150	0		30
Endosulfan sulfate	78		77		30-150	1		30
Methoxychlor	109		108		30-150	1		30
cis-Chlordane	98		97		30-150	1		30
trans-Chlordane	106		105		30-150	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-05 Batch: WG602761-2 WG602761-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	109		100		30-150	A
Decachlorobiphenyl	66		60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		94		30-150	B
Decachlorobiphenyl	136		125		30-150	B

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG602892-2 WG602892-3

Delta-BHC	92		93		30-150	1	20
Lindane	101		104		30-150	3	20
Alpha-BHC	104		107		30-150	3	20
Beta-BHC	101		103		30-150	2	20
Heptachlor	92		94		30-150	2	20
Aldrin	89		90		30-150	2	20
Heptachlor epoxide	108		109		30-150	1	20
Endrin	118		121		30-150	3	20
Endrin ketone	88		88		30-150	0	20

# **Lab Control Sample Analysis** Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG602892-2 WG602892-3								
Dieldrin	111		113		30-150	2		20
4,4'-DDE	104		118		30-150	13		20
4,4'-DDD	101		103		30-150	2		20
4,4'-DDT	106		108		30-150	2		20
Endosulfan I	108		111		30-150	3		20
Endosulfan II	95		99		30-150	4		20
Endosulfan sulfate	81		86		30-150	5		20
Methoxychlor	115		119		30-150	3		20
cis-Chlordane	105		106		30-150	1		20
trans-Chlordane	111		111		30-150	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		90		30-150	A
Decachlorobiphenyl	71		61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		83		30-150	B
Decachlorobiphenyl	127		111		30-150	B

## METALS



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

## SAMPLE RESULTS

Lab ID: L1306810-01

Date Collected: 04/17/13 00:00

Client ID: FIELD BLANK

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.00436	J	mg/l	0.0100	0.00200	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Antimony, Total	0.00035	J	mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Barium, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00050	0.00005	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Calcium, Total	0.111		mg/l	0.100	0.0320	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Chromium, Total	0.00026	J	mg/l	0.00100	0.00020	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Copper, Total	ND		mg/l	0.00100	0.00010	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Iron, Total	ND		mg/l	0.0500	0.0130	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.00100	0.00020	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.0230	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Manganese, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Mercury, Total	0.00008	J	mg/l	0.00020	0.00006	1	04/22/13 14:58	04/23/13 15:19	EPA 7470A	1,7470A	TT
Nickel, Total	0.00014	J	mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.0270	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.00500	0.00030	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Sodium, Total	0.0233	J	mg/l	0.100	0.0150	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK
Zinc, Total	ND		mg/l	0.01000	0.00120	1	04/22/13 10:05	04/23/13 10:02	EPA 3005A	1,6020A	AK



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

## SAMPLE RESULTS

Lab ID: L1306810-02

Date Collected: 04/16/13 14:30

Client ID: SB-22\_0-2

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 48%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	30000		mg/kg	16	3.2	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Antimony, Total	6.6	J	mg/kg	8.1	1.6	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Arsenic, Total	7.2		mg/kg	1.6	0.48	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Barium, Total	310		mg/kg	1.6	0.48	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Beryllium, Total	1.3		mg/kg	0.81	0.06	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Cadmium, Total	1.4	J	mg/kg	1.6	0.10	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Calcium, Total	7000		mg/kg	16	3.2	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Chromium, Total	47		mg/kg	1.6	0.32	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Cobalt, Total	27		mg/kg	3.2	0.81	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Copper, Total	120		mg/kg	1.6	0.81	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Iron, Total	56000		mg/kg	8.1	3.2	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Lead, Total	220		mg/kg	8.1	0.48	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Magnesium, Total	13000		mg/kg	16	6.4	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Manganese, Total	1200		mg/kg	1.6	0.32	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Mercury, Total	1.6		mg/kg	0.15	0.03	1	04/23/13 08:25	04/23/13 11:43	EPA 7471B	1,7471B	MC
Nickel, Total	96		mg/kg	4.0	0.64	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Potassium, Total	16000		mg/kg	400	130	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Selenium, Total	1.6	J	mg/kg	3.2	0.48	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Silver, Total	0.49	J	mg/kg	1.6	0.32	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Sodium, Total	290	J	mg/kg	320	130	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Thallium, Total	2.0	J	mg/kg	3.2	0.97	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Vanadium, Total	61		mg/kg	1.6	0.32	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG
Zinc, Total	440		mg/kg	8.1	0.81	2	04/22/13 11:05	04/22/13 15:11	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

## SAMPLE RESULTS

Lab ID: L1306810-03

Date Collected: 04/16/13 14:50

Client ID: SB-22\_8-10

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	10000		mg/kg	8.8	1.8	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Antimony, Total	2.0	J	mg/kg	4.4	0.88	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Arsenic, Total	3.5		mg/kg	0.88	0.26	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Barium, Total	29		mg/kg	0.88	0.26	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Beryllium, Total	0.33	J	mg/kg	0.44	0.04	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.88	0.05	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Calcium, Total	920		mg/kg	8.8	1.8	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Chromium, Total	12		mg/kg	0.88	0.18	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Cobalt, Total	6.0		mg/kg	1.8	0.44	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Copper, Total	16		mg/kg	0.88	0.44	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Iron, Total	17000		mg/kg	4.4	1.8	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Lead, Total	7.5		mg/kg	4.4	0.26	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Magnesium, Total	3200		mg/kg	8.8	3.5	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Manganese, Total	250		mg/kg	0.88	0.18	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 11:45	EPA 7471B	1,7471B	MC
Nickel, Total	14		mg/kg	2.2	0.35	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Potassium, Total	570		mg/kg	220	70.	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Selenium, Total	0.40	J	mg/kg	1.8	0.26	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.88	0.18	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Sodium, Total	ND		mg/kg	180	70.	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.52	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Vanadium, Total	17		mg/kg	0.88	0.18	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG
Zinc, Total	35		mg/kg	4.4	0.44	2	04/22/13 11:05	04/22/13 15:22	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

## SAMPLE RESULTS

Lab ID: L1306810-04

Date Collected: 04/16/13 15:00

Client ID: SB-14\_0-2

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8800		mg/kg	10	2.1	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Antimony, Total	3.9	J	mg/kg	5.2	1.0	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Arsenic, Total	14		mg/kg	1.0	0.31	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Barium, Total	300		mg/kg	1.0	0.31	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Beryllium, Total	0.47	J	mg/kg	0.52	0.04	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Cadmium, Total	0.49	J	mg/kg	1.0	0.06	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Calcium, Total	30000		mg/kg	10	2.1	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Chromium, Total	20		mg/kg	1.0	0.21	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Cobalt, Total	8.2		mg/kg	2.1	0.52	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Copper, Total	92		mg/kg	1.0	0.52	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Iron, Total	24000		mg/kg	5.2	2.1	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Lead, Total	900		mg/kg	5.2	0.31	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Magnesium, Total	3000		mg/kg	10	4.2	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Manganese, Total	460		mg/kg	1.0	0.21	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Mercury, Total	2.3		mg/kg	0.28	0.06	3	04/23/13 08:25	04/23/13 13:03	EPA 7471B	1,7471B	MC
Nickel, Total	17		mg/kg	2.6	0.42	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Potassium, Total	1500		mg/kg	260	83.	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Selenium, Total	1.8	J	mg/kg	2.1	0.31	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Silver, Total	0.99	J	mg/kg	1.0	0.21	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Sodium, Total	460		mg/kg	210	83.	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	2.1	0.62	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Vanadium, Total	29		mg/kg	1.0	0.21	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG
Zinc, Total	340		mg/kg	5.2	0.52	2	04/22/13 11:05	04/22/13 15:25	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

## SAMPLE RESULTS

Lab ID: L1306810-05

Date Collected: 04/16/13 15:10

Client ID: SB-14\_7-9

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9800		mg/kg	8.5	1.7	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Antimony, Total	1.3	J	mg/kg	4.2	0.85	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Arsenic, Total	3.5		mg/kg	0.85	0.26	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Barium, Total	33		mg/kg	0.85	0.26	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Beryllium, Total	0.33	J	mg/kg	0.42	0.03	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.85	0.05	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Calcium, Total	1200		mg/kg	8.5	1.7	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Chromium, Total	13		mg/kg	0.85	0.17	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Cobalt, Total	6.2		mg/kg	1.7	0.42	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Copper, Total	15		mg/kg	0.85	0.42	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Iron, Total	16000		mg/kg	4.2	1.7	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Lead, Total	13		mg/kg	4.2	0.26	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Magnesium, Total	3100		mg/kg	8.5	3.4	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Manganese, Total	170		mg/kg	0.85	0.17	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Mercury, Total	0.03	J	mg/kg	0.09	0.02	1	04/23/13 08:25	04/23/13 11:49	EPA 7471B	1,7471B	MC
Nickel, Total	17		mg/kg	2.1	0.34	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Potassium, Total	710		mg/kg	210	68.	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Selenium, Total	0.31	J	mg/kg	1.7	0.26	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.85	0.17	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Sodium, Total	ND		mg/kg	170	68.	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.51	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Vanadium, Total	18		mg/kg	0.85	0.17	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG
Zinc, Total	33		mg/kg	4.2	0.42	2	04/22/13 11:05	04/22/13 15:49	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG603035-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Antimony, Total	0.00045	J	mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Barium, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00050	0.00005	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.0320	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Chromium, Total	ND		mg/l	0.00100	0.00020	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Copper, Total	ND		mg/l	0.00100	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Iron, Total	ND		mg/l	0.0500	0.0130	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Lead, Total	ND		mg/l	0.00100	0.00020	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.0230	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Manganese, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Nickel, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Potassium, Total	0.0296	J	mg/l	0.100	0.0270	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Selenium, Total	ND		mg/l	0.00500	0.00030	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Sodium, Total	ND		mg/l	0.100	0.0150	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Thallium, Total	0.00006	J	mg/l	0.00050	0.00003	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Zinc, Total	ND		mg/l	0.01000	0.00120	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-05 Batch: WG603051-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Antimony, Total	ND		mg/kg	2.0	0.40	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Arsenic, Total	ND		mg/kg	0.40	0.12	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Barium, Total	ND		mg/kg	0.40	0.12	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Beryllium, Total	ND	mg/kg	0.20	0.02	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Cadmium, Total	ND	mg/kg	0.40	0.02	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Calcium, Total	ND	mg/kg	4.0	0.80	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Chromium, Total	ND	mg/kg	0.40	0.08	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Cobalt, Total	ND	mg/kg	0.80	0.20	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Copper, Total	ND	mg/kg	0.40	0.20	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Iron, Total	ND	mg/kg	2.0	0.80	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Lead, Total	ND	mg/kg	2.0	0.12	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Magnesium, Total	ND	mg/kg	4.0	1.6	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Manganese, Total	ND	mg/kg	0.40	0.08	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Nickel, Total	ND	mg/kg	1.0	0.16	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Potassium, Total	ND	mg/kg	100	32.	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Selenium, Total	ND	mg/kg	0.80	0.12	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Silver, Total	ND	mg/kg	0.40	0.08	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Sodium, Total	ND	mg/kg	80	32.	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Thallium, Total	ND	mg/kg	0.80	0.24	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Vanadium, Total	ND	mg/kg	0.40	0.08	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG
Zinc, Total	ND	mg/kg	2.0	0.20	1	04/22/13 11:05	04/22/13 15:05	1,6010C	MG

#### Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG603081-1										
Mercury, Total	0.00007	J	mg/l	0.00020	0.00006	1	04/22/13 14:58	04/23/13 12:01	1,7470A	TT

#### Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-05 Batch: WG603102-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 11:13	1,7471B	MC



**Project Name:** 514 W. 27TH ST. NYC

**Lab Number:** L1306810

**Project Number:** E040

**Report Date:** 04/25/13

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

---

Digestion Method: EPA 7471B



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG603035-2								
Aluminum, Total	104		-		80-120	-		
Antimony, Total	87		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	91		-		80-120	-		
Beryllium, Total	102		-		80-120	-		
Cadmium, Total	100		-		80-120	-		
Calcium, Total	96		-		80-120	-		
Chromium, Total	94		-		80-120	-		
Cobalt, Total	96		-		80-120	-		
Copper, Total	99		-		80-120	-		
Iron, Total	95		-		80-120	-		
Lead, Total	96		-		80-120	-		
Magnesium, Total	98		-		80-120	-		
Manganese, Total	94		-		80-120	-		
Nickel, Total	96		-		80-120	-		
Potassium, Total	101		-		80-120	-		
Selenium, Total	102		-		80-120	-		
Silver, Total	91		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	94		-		80-120	-		
Vanadium, Total	99		-		80-120	-		

**Lab Control Sample Analysis**  
Batch Quality Control**Project Name:** 514 W. 27TH ST. NYC**Project Number:** E040**Lab Number:** L1306810**Report Date:** 04/25/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG603035-2					
Zinc, Total	104	-	80-120	-	

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-05 Batch: WG603051-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	98	-	29-171	-	
Antimony, Total	112	-	4-196	-	
Arsenic, Total	100	-	81-119	-	
Barium, Total	100	-	83-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	94	-	82-117	-	
Calcium, Total	83	-	83-117	-	
Chromium, Total	97	-	80-119	-	
Cobalt, Total	99	-	83-117	-	
Copper, Total	101	-	83-117	-	
Iron, Total	94	-	51-150	-	
Lead, Total	92	-	80-120	-	
Magnesium, Total	92	-	74-126	-	
Manganese, Total	97	-	83-117	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	99	-	74-126	-	
Selenium, Total	98	-	80-120	-	
Silver, Total	100	-	66-134	-	
Sodium, Total	117	-	74-127	-	
Thallium, Total	96	-	79-120	-	
Vanadium, Total	98	-	79-121	-	

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-05 Batch: WG603051-2 SRM Lot Number: 0518-10-02					
Zinc, Total	88	-	82-119	-	
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG603081-2					
Mercury, Total	107	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 02-05 Batch: WG603102-2 SRM Lot Number: 0518-10-02					
Mercury, Total	102	-	67-133	-	

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603035-4 QC Sample: L1307031-02 Client ID: MS Sample												
Aluminum, Total	0.003J	2	2.11	106		-	-		80-120	-		20
Antimony, Total	0.0010	0.5	0.4984	99		-	-		80-120	-		20
Arsenic, Total	0.0026	0.12	0.1373	112		-	-		80-120	-		20
Barium, Total	0.2817	2	2.179	95		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.05040	101		-	-		80-120	-		20
Cadmium, Total	ND	0.51	0.5363	105		-	-		80-120	-		20
Calcium, Total	69.5	10	79.0	95		-	-		80-120	-		20
Chromium, Total	0.0010	0.2	0.1932	96		-	-		80-120	-		20
Cobalt, Total	0.0010	0.5	0.4939	98		-	-		80-120	-		20
Copper, Total	0.0006J	0.25	0.2566	103		-	-		80-120	-		20
Iron, Total	6.48	1	7.30	82		-	-		80-120	-		20
Lead, Total	ND	0.51	0.5145	101		-	-		80-120	-		20
Magnesium, Total	25.0	10	35.7	107		-	-		80-120	-		20
Manganese, Total	0.3016	0.5	0.7635	92		-	-		80-120	-		20
Nickel, Total	0.0013	0.5	0.4987	99		-	-		80-120	-		20
Potassium, Total	11.9	10	22.1	102		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.128	107		-	-		80-120	-		20
Silver, Total	ND	0.05	0.04820	96		-	-		80-120	-		20
Sodium, Total	122.	10	135	130	Q	-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1156	96		-	-		80-120	-		20
Vanadium, Total	0.0006J	0.5	0.4999	100		-	-		80-120	-		20

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603035-4 QC Sample: L1307031-02 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5268	105	-	-	80-120	-	20

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG603051-4 QC Sample: L1306810-02 Client ID: SB-22_0-2									
Aluminum, Total	30000	324	28000	0	Q	-	75-125	-	35
Antimony, Total	6.6J	81	76	94		-	75-125	-	35
Arsenic, Total	7.2	19.4	25	92		-	75-125	-	35
Barium, Total	310	324	590	86		-	75-125	-	35
Beryllium, Total	1.3	8.1	9.0	95		-	75-125	-	35
Cadmium, Total	1.4J	82.7	74	89		-	75-125	-	35
Calcium, Total	7000	1620	5600	0	Q	-	75-125	-	35
Chromium, Total	47.	32.4	73	80		-	75-125	-	35
Cobalt, Total	27.	81	100	90		-	75-125	-	35
Copper, Total	120	40.5	140	49	Q	-	75-125	-	35
Iron, Total	56000	162	49000	0	Q	-	75-125	-	35
Lead, Total	220	82.7	230	12	Q	-	75-125	-	35
Magnesium, Total	13000	1620	14000	62	Q	-	75-125	-	35
Manganese, Total	1200	81	1100	0	Q	-	75-125	-	35
Nickel, Total	96.	81	160	79		-	75-125	-	35
Potassium, Total	16000	1620	17000	62	Q	-	75-125	-	35
Selenium, Total	1.6J	19.4	21	108		-	75-125	-	35
Silver, Total	0.49J	48.6	52	107		-	75-125	-	35
Sodium, Total	290J	1620	2500	154	Q	-	75-125	-	35
Thallium, Total	2.0J	19.4	20	103		-	75-125	-	35
Vanadium, Total	61.	81	140	97		-	75-125	-	35

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG603051-4 QC Sample: L1306810-02 Client ID: SB-22_0-2									
Zinc, Total	440	81	460	25	Q	-	75-125	-	35
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603081-4 QC Sample: L1306181-01 Client ID: MS Sample									
Mercury, Total	0.00007J	0.001	0.00072	73	-	-	70-130	-	20
Total Metals - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG603102-4 QC Sample: L1306727-02 Client ID: MS Sample									
Mercury, Total	0.07J	0.172	0.29	169	Q	-	70-130	-	35



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

## Lab Duplicate Analysis

Batch Quality Control

**Lab Number:** L1306810  
**Report Date:** 04/25/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603035-3 QC Sample: L1307031-02 Client ID: DUP Sample						
Iron, Total	6.48	6.40	mg/l	1		20

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Lab Number:** L1306810  
**Report Date:** 04/25/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG603051-3 QC Sample: L1306810-02 Client ID: SB-22_0-2					
Aluminum, Total	30000	32000	mg/kg	6	35
Antimony, Total	6.6J	11	mg/kg	NC	35
Arsenic, Total	7.2	7.1	mg/kg	1	35
Barium, Total	310	470	mg/kg	41	Q 35
Beryllium, Total	1.3	1.3	mg/kg	0	35
Cadmium, Total	1.4J	3.7	mg/kg	NC	35
Calcium, Total	7000	8500	mg/kg	19	35
Chromium, Total	47.	70	mg/kg	39	Q 35
Cobalt, Total	27.	29	mg/kg	7	35
Copper, Total	120	210	mg/kg	55	Q 35
Iron, Total	56000	66000	mg/kg	16	35
Lead, Total	220	790	mg/kg	113	Q 35
Magnesium, Total	13000	14000	mg/kg	7	35
Manganese, Total	1200	1300	mg/kg	8	35
Nickel, Total	96.	110	mg/kg	14	35
Potassium, Total	16000	19000	mg/kg	17	35
Selenium, Total	1.6J	2.6J	mg/kg	NC	35
Silver, Total	0.49J	1.3J	mg/kg	NC	35
Sodium, Total	290J	1100	mg/kg	NC	35

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

## Lab Duplicate Analysis

Batch Quality Control

**Lab Number:** L1306810  
**Report Date:** 04/25/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG603051-3 QC Sample: L1306810-02 Client ID: SB-22_0-2					
Thallium, Total	2.0J	2.7J	mg/kg	NC	35
Vanadium, Total	61.	67	mg/kg	9	35
Zinc, Total	440	980	mg/kg	76 Q	35
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603081-3 QC Sample: L1306181-01 Client ID: DUP Sample					
Mercury, Total	0.00007J	0.00007J	mg/l	NC	20
Total Metals - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG603102-3 QC Sample: L1306727-02 Client ID: DUP Sample					
Mercury, Total	0.07J	0.08J	mg/kg	NC	35

# **INORGANICS & MISCELLANEOUS**

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

## SAMPLE RESULTS

Lab ID: L1306810-01

Client ID: FIELD BLANK

Sample Location: 514 W. 27TH ST. NYC

Matrix: Water

Date Collected: 04/17/13 00:00

Date Received: 04/17/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	04/23/13 15:00	04/25/13 13:24	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	04/18/13 02:00	04/18/13 02:09	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

## SAMPLE RESULTS

Lab ID: L1306810-02

Date Collected: 04/16/13 14:30

Client ID: SB-22\_0-2

Date Received: 04/17/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	47.6		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	2.0	0.47	1	04/22/13 10:25	04/23/13 13:25	1,9010C/9012A	JO
Chromium, Hexavalent	0.44	J	mg/kg	1.7	0.38	1	04/20/13 13:55	04/21/13 15:04	1,7196A	TA



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

## SAMPLE RESULTS

Lab ID: L1306810-03

Client ID: SB-22\_8-10

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/16/13 14:50

Date Received: 04/17/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.25	1	04/22/13 10:25	04/23/13 13:29	1,9010C/9012A	JO
Chromium, Hexavalent	0.30	J	mg/kg	0.91	0.20	1	04/20/13 13:55	04/21/13 15:04	1,7196A	TA



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

### SAMPLE RESULTS

**Lab ID:** L1306810-04  
**Client ID:** SB-14\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/16/13 15:00  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.2		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.3	0.30	1	04/22/13 10:25	04/23/13 13:30	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	1.1	0.24	1	04/20/13 13:55	04/21/13 15:05	1,7196A	TA





**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

### SAMPLE RESULTS

**Lab ID:** L1306810-05  
**Client ID:** SB-14\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/16/13 15:10  
**Date Received:** 04/17/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.0	0.25	1	04/22/13 10:25	04/23/13 13:30	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.88	0.20	1	04/20/13 13:55	04/21/13 15:05	1,7196A	TA



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1306810

Project Number: E040

Report Date: 04/25/13

### Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-05 Batch: WG602896-1										
Chromium, Hexavalent	ND		mg/l	0.80	0.18	1	04/20/13 13:55	04/21/13 14:53	1,7196A	TA
General Chemistry - Westborough Lab for sample(s): 02-05 Batch: WG603067-1										
Cyanide, Total	ND		mg/kg	0.94	0.22	1	04/22/13 10:25	04/23/13 13:20	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG603453-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/23/13 15:00	04/25/13 13:19	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG603560-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	04/18/13 02:00	04/18/13 02:08	1,7196A	JT

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1306810

**Report Date:** 04/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-05 Batch: WG602896-2								
Chromium, Hexavalent	89		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-05 Batch: WG603067-4 WG603067-5								
Cyanide, Total	106		106		80-120	0		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG603453-4 WG603453-5								
Cyanide, Total	98		105		80-120	7		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG603560-2								
Chromium, Hexavalent	104		-		85-115	-		20

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG602896-5 QC Sample: L1306810-05 Client ID: SB-14_7-9												
Chromium, Hexavalent	ND	1380	1200	87		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG603067-3 WG603067-2 QC Sample: L1306810-02 Client ID: SB-22_0-2												
Cyanide, Total	ND	20	21	100		21	100		65-135	0		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603453-3 WG603453-2 QC Sample: L1307098-03 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.194	97		0.188	94		80-120	3		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603560-4 QC Sample: L1306810-01 Client ID: FIELD BLANK												
Chromium, Hexavalent	ND	0.1	0.096	96		-	-		85-115	-		20

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

## Lab Duplicate Analysis

Batch Quality Control

**Lab Number:** L1306810  
**Report Date:** 04/25/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG602877-1 QC Sample: L1306972-01 Client ID: DUP Sample						
Solids, Total	84.3	84.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG602896-4 QC Sample: L1306810-05 Client ID: SB-14_7-9						
Chromium, Hexavalent	ND	0.22J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603560-3 QC Sample: L1306810-01 Client ID: FIELD BLANK						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/18/2013 04:36

## Cooler Information Custody Seal

## Cooler

A	Absent
B	Absent
C	Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306810-01A	Vial HCl preserved	B	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1306810-01B	Vial HCl preserved	B	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1306810-01C	Vial HCl preserved	B	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1306810-01D	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	NYTCL-8082-1200ML(7)
L1306810-01E	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	NYTCL-8082-1200ML(7)
L1306810-01F	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	NYTCL-8081(7)
L1306810-01G	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	NYTCL-8081(7)
L1306810-01H	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1306810-01I	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1306810-01J	Plastic 250ml NaOH preserved	B	>12	3.3	Y	Absent	TCN-9010(14)
L1306810-01K	Plastic 500ml HNO3 preserved	B	<2	3.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1306810-01L	Plastic 500ml unpreserved	B	7	3.3	Y	Absent	HEXCR-7196(1)
L1306810-02A	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-02B	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-02C	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-02D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	TS(7)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306810-02E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306810-02F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306810-02X	Vial MeOH preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-02Y	Vial Water preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-02Z	Vial Water preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-03A	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-03B	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-03C	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-03D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	TS(7)
L1306810-03E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306810-03F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306810-03X	Vial MeOH preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-03Y	Vial Water preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-03Z	Vial Water preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-04A	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-04B	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-04C	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-04D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	TS(7)
L1306810-04E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306810-04F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306810-04X	Vial MeOH preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-04Y	Vial Water preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-04Z	Vial Water preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-05A	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days





Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306810-05B	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-05C	5 gram Encore Sampler	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(2)
L1306810-05D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	TS(7)
L1306810-05E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306810-05F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1306810-05X	Vial MeOH preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-05Y	Vial Water preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-05Z	Vial Water preserved split	C	N/A	3.3	Y	Absent	NYTCL-8260HLW(14)
L1306810-06A	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A1	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A10	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A11	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A12	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A13	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A14	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A15	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A16	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A17	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A18	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A19	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A2	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306810-06A20	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A21	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A22	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A23	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A24	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A25	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A26	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A27	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A28	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A29	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A3	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A30	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A31	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A32	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A33	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A34	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A35	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A36	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A37	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A38	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A39	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A4	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A40	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A41	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A42	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A43	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A44	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A45	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A46	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A47	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A48	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A49	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A5	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A50	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A51	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	DISPOSAL()
L1306810-06A6	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306810-06A7	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A8	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06A9	5 gram Encore Sampler	A	N/A	2.8	Y	Absent	HOLD-8260(14)
L1306810-06B1	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B10	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B11	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B12	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B13	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B14	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B15	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B16	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B17	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B18	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B19	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B2	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B20	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B21	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B22	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B23	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B24	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B25	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B26	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B27	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B28	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B29	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B3	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B30	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B31	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B32	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B33	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B34	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B4	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B5	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B6	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B7	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06B8	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306810-06B9	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	HOLD-8082()
L1306810-06C1	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C10	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C11	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C12	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C13	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C14	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C15	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C16	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C17	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C2	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C3	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C4	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C5	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C6	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C7	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C8	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06C9	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	HOLD()
L1306810-06D	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	-
L1306810-06E	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	-
L1306810-06F	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	-
L1306810-07D	Plastic 2oz unpreserved for TS	A	N/A	2.8	Y	Absent	-
L1306810-07E	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	-
L1306810-07F	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	-
L1306810-08D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-08E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-08F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-09D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-09E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-09F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-10D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-10E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-10F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-11D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-11E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-11F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1306810

Report Date: 04/25/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306810-12D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-12E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-12F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-13D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-13E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-13F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-14D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-14E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-14F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-15D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-15E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-15F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-16A	Vial HCl preserved	B	N/A	3.3	Y	Absent	-
L1306810-16B	Vial HCl preserved	B	N/A	3.3	Y	Absent	-
L1306810-16C	Vial HCl preserved	B	N/A	3.3	Y	Absent	-
L1306810-16D	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	-
L1306810-16E	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	-
L1306810-16F	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	-
L1306810-16G	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	-
L1306810-16H	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	-
L1306810-16I	Amber 1000ml unpreserved	B	7	3.3	Y	Absent	-
L1306810-16J	Plastic 250ml NaOH preserved	B	>12	3.3	Y	Absent	-
L1306810-16K	Plastic 500ml HNO3 preserved	B	<2	3.3	Y	Absent	-
L1306810-16L	Plastic 500ml unpreserved	B	7	3.3	Y	Absent	-
L1306810-17D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-17E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-17F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-18D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-18E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-18F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-19D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-19E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-19F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-20D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-20E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-20F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-

\*Values in parentheses indicate holding time in days



**Project Name:** 514 W. 27TH ST. NYC**Project Number:** E040**Lab Number:** L1306810**Report Date:** 04/25/13**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1306810-21D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-21E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-21F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-22D	Plastic 2oz unpreserved for TS	C	N/A	3.3	Y	Absent	-
L1306810-22E	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-
L1306810-22F	Amber 250ml unpreserved	C	N/A	3.3	Y	Absent	-

**Container Comments**

L1306810-01J

L1306810-16L

\*Values in parentheses indicate holding time in days

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

**Report Format:** DU Report with "J" Qualifiers



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

**Data Qualifiers**

due to obvious interference.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers





**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.  
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

*Drinking Water* (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; Colilert, SM9223B; MF-SM9222D.)

*Non-Potable Water (Inorganic Parameters:*, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

*Organic Parameters:* (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. *Microbiology Parameters:* (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

**New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. *Organic Parameters:* 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. *Organic Parameters:* SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. *Organic Parameters:* SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

**New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. *Organic Parameters:* EPA 332, 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. *Organic Parameters:* SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. *Organic Parameters:* SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

**New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

*Non-Potable Water (Inorganic Parameters:* SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. *Organic Parameters:* EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

*Solid & Hazardous Waste (Inorganic Parameters:* EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. *Organic Parameters:* EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

**North Carolina Department of the Environment and Natural Resources** Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO<sub>3</sub>-F, 353.2, 4500P-E, 4500SO<sub>4</sub>-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

**Pennsylvania Department of Environmental Protection** Certificate/Lab ID : 68-03671. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>-B, 4500NO<sub>3</sub>-F, 4500S-D, 4500SO<sub>3</sub>-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH<sub>3</sub>-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commission on Environmental Quality** Certificate/Lab ID: T104704476. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>B, 4500P-E, 4500 S<sup>2-</sup> D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID: 460195. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.

*Drinking Water* (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO<sub>3</sub>-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

**The following analytes are not included in our current NELAP/TNI Scope of Accreditation:**

**EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO<sub>2</sub> in a soil matrix, NO<sub>3</sub> in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.



WESTBORO, MA  
TEL: 508-898-8220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

# CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 4/17/13

ALPHA Job #: 21306810

## Client Information

Client: INTEGRAL CONSULTING

Address: 267 BROADWAY 5TH FL  
NEW YORK, NY 10007

Phone: (212) 962-4201

Fax: (212) 962-4302

Email: ACARROLL@INTEGRAL-CORP.COM

☐ These samples have been previously analyzed by Alpha

## Project Information

Project Name: 514 W. 27TH ST NYC

Project Location: 514 W. 27TH ST NYC

Project #: E040

Project Manager: ALPHA CARROLL

ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/24/13 Time:

## Report Information - Data Deliverables

☐ FAX

☒ EMAIL

☒ ADEx

☐ Add'l Deliverables

## Billing Information

☐ Same as Client info

PO #:

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
<del>06810</del>	<del>10 SB-10-0-2</del>	<del>4/17/13</del>	<del>1155</del>	<del>S</del>	<del>JPL</del>
<del>11</del>	<del>SB-10-8-10</del>	<del>4/17/13</del>	<del>1205</del>	<del>S</del>	<del>JPL</del>
<del>12</del>	<del>SB-23-0-2</del>	<del>4/17/13</del>	<del>1225</del>	<del>S</del>	<del>JPL</del>
<del>13</del>	<del>SB-23-7-9</del>	<del>4/17/13</del>	<del>1235</del>	<del>S</del>	<del>JPL</del>
<del>14</del>	<del>SB-24-1-3</del>	<del>4/17/13</del>	<del>1310</del>	<del>S</del>	<del>JPL</del>
<del>15</del>	<del>SB-24-8-10</del>	<del>4/17/13</del>	<del>1320</del>	<del>S</del>	<del>JPL</del>
<del>01 @ 16</del>	<del>FIELD BLANK</del>	<del>4/17/13</del>	<del>-</del>	<del>JPL</del>	<del></del>

ANALYSIS										TOTAL # BOTTLES
VOC	SVOC, PEST, PCB	TAL METALS, HEX CR	TCN	TS	VOC	SVOC, PEST, PCB	TCN	TAL METALS	HEX CR	
X	X	X	X	X	X	X	X	X	X	6
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	12

## SAMPLE HANDLING

Filtration

☐ Done

☐ Not needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

Container Type

E A A P V A P P

Preservative

A A A A B A E C A

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

# CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 4/17/13 ALPHA Job #: 41306810

## Report Information - Data Deliverables

☐ FAX ☒ EMAIL  
☒ ADEx ☐ Add'l Deliverables

## Billing Information

☐ Same as Client info PO #:

## Regulatory Requirements/Report Limits

State /Fed Program Criteria

ANALYSIS	SAMPLE HANDLING										TOTAL # BOTTLES
	Filtration_____										
VOC,	SUOC	PLST	PCB	TCU	TAL Metals	Hex Cr	<input type="checkbox"/> Done	<input type="checkbox"/> Not needed	<input type="checkbox"/> Lab to do	<input type="checkbox"/> Lab to do	Preservation
(Please specify below)											
Sample Specific Comments											

## Client Information

Client: Integral  
Address: 267 Broadway 5th Floor  
NY, NY  
Phone: (212) 962-4201  
Fax:  
Email:

## Project Information

Project Name: 514 W. 27th St. NYC  
Project Location: ↓

Project #: E040  
Project Manager: Alana Carroll  
ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 4/24/13 Time:

☐ These samples have been previously analyzed by Alpha

## Other Project Specific Requirements/Comments/Detection Limits:

Added by MB per client - 4/18/13

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials										
		Date	Time												
06810.02	SB-22-0-2	4/16/13	1430	Soil	SL	x									
.03	SB-22-8-10	4/16/13	1450	↓	↓	x									
.04	SB-14-0-2	4/16/13	15:00	↓	↓	x									
.05	SB-14-7-9	4/16/13	1510	↓	↓	x									

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

James Lesperance - Integral

4/17/13 1445

Alex Archili - Alpha

4-17-13 1445

Alex Archili - Alpha

4/17/13 1400

Steve Morris - Alpha

4-17-13 1400

Steve Morris - Alpha

4/17/13 2540

William McClelland - Alpha

4-17-13 2540

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9183

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

# CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab

4/17/13

ALPHA Job #: 41306810

## Project Information

Project Name: 514 W. 27th ST NYC

Project Location: 514 W. 27th ST NYC

Project #: E040

Project Manager: ALANA CARROLL

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 4/24/13 Time:

## Report Information - Data Deliverables

☐ FAX ☒ EMAIL  
☒ ADEX ☐ Add'l Deliverables

## Billing Information

☐ Same as Client info PO #:

## Regulatory Requirements/Report Limits

State /Fed Program Criteria

## Client Information

Client: INTEGRAL CONSULTING

Address: 267 BROADWAY 5TH FL

NEW YORK, NY 10007

Phone: (212) 962-4301

Fax: (212) 962-4302

Email: A.CARROLL@INTEGRAL-CORP.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

## SAMPLE HANDLING

Filtration  
☐ Done  
☐ Not needed  
☐ Lab to do  
☐ Preservation  
☐ Lab to do  
(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	VOC	SVOC	PEST	PCB	PAH	MS	MSD	TS	TOTAL # BOTTLES
06810	SB-8-0-2	4/17/13 0905	S	JPL	X	X	X	X	X	X	X	X	6
2	SB-8-8-10	0915			X	X	X	X	X	X	X	X	
3	SB-15-0-2	0935			X	X	X	X	X	X	X	X	
4	SB-15-8-10	0945			X	X	X	X	X	X	X	X	
5	FIELD-DUP-1	0945			X	X	X	X	X	X	X	X	
6	SB-12-1-3	1005			X	X	X	X	X	X	X	X	
7	SB-12-7-9	1020			X	X	X	X	X	X	X	X	
7	MS/MSD-1	1020			X	X	X	X	X	X	X	X	
8	SB-9-1-3	1035			X	X	X	X	X	X	X	X	
9	SB-9-3-5	1045			X	X	X	X	X	X	X	X	

Container Type

EA A P

Preservative

A A A A

Please print clearly, legibly and completely. Samples cannot be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time





## ANALYTICAL REPORT

Lab Number:	L1307006
Client:	Integral Consulting, Inc. 267 Broadway Fifth Floor New York, NY 10007
ATTN:	Alana Carroll
Phone:	(212) 962-4301
Project Name:	514 W 27TH ST NYC
Project Number:	E040
Report Date:	04/26/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307006  
**Report Date:** 04/26/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1307006-01	SB-12_CON_TOP	514 W 27TH ST NYC	04/17/13 09:50
L1307006-02	SB-28_CON_TOP	514 W 27TH ST NYC	04/18/13 08:25
L1307006-03	SB-10_CON_BOT	514 W 27TH ST NYC	04/18/13 15:10
L1307006-04	SB-17_CON_BOT	514 W 27TH ST NYC	04/19/13 08:20
L1307006-05	SB-24_CON_TOP	514 W 27TH ST NYC	04/19/13 10:00
L1307006-06	SB-11_CON_BOT	514 W 27TH ST NYC	04/19/13 11:00

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307006  
**Report Date:** 04/26/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307006  
**Report Date:** 04/26/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### PCBs

L1307006-02 and -03 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.

The dual column RPD for L1307006-04 is above the acceptance criteria for Aroclor 1242; however, no obvious column interferences are present. The higher of the two results is reported and qualified with a "P".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cynthia McQueen

Title: Technical Director/Representative

Date: 04/26/13

# ORGANICS

# PCBS

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13**SAMPLE RESULTS**

**Lab ID:** L1307006-01  
**Client ID:** SB-12\_CON\_TOP  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Concrete  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 18:37  
**Analyst:** KB  
**Percent Solids:** 95%

**Date Collected:** 04/17/13 09:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3540C  
**Extraction Date:** 04/22/13 11:10  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/23/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	58.5	19.3	1
Aroclor 1221	ND		ug/kg	58.5	29.4	1
Aroclor 1232	ND		ug/kg	58.5	20.7	1
Aroclor 1242	ND		ug/kg	58.5	18.5	1
Aroclor 1248	ND		ug/kg	39.0	11.8	1
Aroclor 1254	ND		ug/kg	58.5	15.4	1
Aroclor 1260	ND		ug/kg	39.0	16.9	1
Aroclor 1262	ND		ug/kg	19.5	7.21	1
Aroclor 1268	ND		ug/kg	19.5	14.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	110		30-150
Decachlorobiphenyl	76		30-150
2,4,5,6-Tetrachloro-m-xylene	104		30-150
Decachlorobiphenyl	75		30-150

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13**SAMPLE RESULTS**

**Lab ID:** L1307006-02  
**Client ID:** SB-28\_CON\_TOP  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Concrete  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 18:54  
**Analyst:** KB  
**Percent Solids:** 91%

**Date Collected:** 04/18/13 08:25  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3540C  
**Extraction Date:** 04/22/13 11:10  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/23/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	172	56.5	3
Aroclor 1221	ND		ug/kg	172	86.2	3
Aroclor 1232	ND		ug/kg	172	60.7	3
Aroclor 1242	ND		ug/kg	172	54.3	3
Aroclor 1248	ND		ug/kg	114	34.6	3
Aroclor 1254	ND		ug/kg	172	45.1	3
Aroclor 1260	ND		ug/kg	114	49.6	3
Aroclor 1262	ND		ug/kg	57.2	21.1	3
Aroclor 1268	ND		ug/kg	57.2	41.5	3

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	104		30-150
Decachlorobiphenyl	163	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	87		30-150
Decachlorobiphenyl	124		30-150



**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13**SAMPLE RESULTS**

**Lab ID:** L1307006-03  
**Client ID:** SB-10\_CON\_BOT  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Concrete  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 19:11  
**Analyst:** KB  
**Percent Solids:** 92%

**Date Collected:** 04/18/13 15:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3540C  
**Extraction Date:** 04/22/13 11:10  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/23/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	167	54.9	3
Aroclor 1221	ND		ug/kg	167	83.9	3
Aroclor 1232	ND		ug/kg	167	59.0	3
Aroclor 1242	ND		ug/kg	167	52.8	3
Aroclor 1248	ND		ug/kg	111	33.6	3
Aroclor 1254	ND		ug/kg	167	43.8	3
Aroclor 1260	ND		ug/kg	111	48.2	3
Aroclor 1262	ND		ug/kg	55.6	20.6	3
Aroclor 1268	ND		ug/kg	55.6	40.3	3

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	54		30-150
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	38		30-150

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13**SAMPLE RESULTS**

**Lab ID:** L1307006-04  
**Client ID:** SB-17\_CON\_BOT  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Concrete  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 19:28  
**Analyst:** KB  
**Percent Solids:** 98%

**Date Collected:** 04/19/13 08:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3540C  
**Extraction Date:** 04/22/13 11:10  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/23/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	48.5	16.0	1
Aroclor 1221	ND		ug/kg	48.5	24.4	1
Aroclor 1232	ND		ug/kg	48.5	17.2	1
Aroclor 1248	ND		ug/kg	32.4	9.79	1
Aroclor 1260	88.9		ug/kg	32.4	14.0	1
Aroclor 1262	ND		ug/kg	16.2	5.98	1
Aroclor 1268	ND		ug/kg	16.2	11.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	65		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	67		30-150

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13**SAMPLE RESULTS**

**Lab ID:** L1307006-04  
**Client ID:** SB-17\_CON\_BOT  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Concrete  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 19:28  
**Analyst:** KB  
**Percent Solids:** 98%

**Date Collected:** 04/19/13 08:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3540C  
**Extraction Date:** 04/22/13 11:10  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/23/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1242	59.8	P	ug/kg	48.5	15.4	1
Aroclor 1254	123		ug/kg	48.5	12.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	65		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	67		30-150

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13**SAMPLE RESULTS**

**Lab ID:** L1307006-05  
**Client ID:** SB-24\_CON\_TOP  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Concrete  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 19:45  
**Analyst:** KB  
**Percent Solids:** 92%

**Date Collected:** 04/19/13 10:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3540C  
**Extraction Date:** 04/22/13 11:10  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/23/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	54.8	18.0	1
Aroclor 1221	ND		ug/kg	54.8	27.6	1
Aroclor 1232	ND		ug/kg	54.8	19.4	1
Aroclor 1242	ND		ug/kg	54.8	17.4	1
Aroclor 1248	ND		ug/kg	36.6	11.1	1
Aroclor 1254	ND		ug/kg	54.8	14.4	1
Aroclor 1260	ND		ug/kg	36.6	15.9	1
Aroclor 1262	ND		ug/kg	18.3	6.76	1
Aroclor 1268	ND		ug/kg	18.3	13.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	46		30-150

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13**SAMPLE RESULTS**

**Lab ID:** L1307006-06  
**Client ID:** SB-11\_CON\_BOT  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Concrete  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 20:02  
**Analyst:** KB  
**Percent Solids:** 91%

**Date Collected:** 04/19/13 11:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3540C  
**Extraction Date:** 04/22/13 11:10  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/23/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	48.0	15.8	1
Aroclor 1221	ND		ug/kg	48.0	24.1	1
Aroclor 1232	ND		ug/kg	48.0	17.0	1
Aroclor 1242	ND		ug/kg	48.0	15.2	1
Aroclor 1248	ND		ug/kg	32.0	9.68	1
Aroclor 1254	63.3		ug/kg	48.0	12.6	1
Aroclor 1260	26.5	J	ug/kg	32.0	13.9	1
Aroclor 1262	ND		ug/kg	16.0	5.92	1
Aroclor 1268	ND		ug/kg	16.0	11.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	106		30-150
Decachlorobiphenyl	74		30-150
2,4,5,6-Tetrachloro-m-xylene	101		30-150
Decachlorobiphenyl	65		30-150

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A  
 Analytical Date: 04/24/13 20:20  
 Analyst: KB

Extraction Method: EPA 3540C  
 Extraction Date: 04/22/13 11:10  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/23/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-06 Batch: WG603066-1					
Aroclor 1016	ND		ug/kg	55.9	18.4
Aroclor 1221	ND		ug/kg	55.9	28.1
Aroclor 1232	ND		ug/kg	55.9	19.8
Aroclor 1242	ND		ug/kg	55.9	17.7
Aroclor 1248	ND		ug/kg	37.2	11.3
Aroclor 1254	ND		ug/kg	55.9	14.7
Aroclor 1260	ND		ug/kg	37.2	16.2
Aroclor 1262	ND		ug/kg	18.6	6.89
Aroclor 1268	ND		ug/kg	18.6	13.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	65		30-150
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	61		30-150

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307006

**Report Date:** 04/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG603066-2 WG603066-3								
Aroclor 1016	78		69		40-140	12		50
Aroclor 1260	74		66		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	79		71		30-150
Decachlorobiphenyl	70		66		30-150
2,4,5,6-Tetrachloro-m-xylene	81		71		30-150
Decachlorobiphenyl	63		57		30-150

# **INORGANICS & MISCELLANEOUS**



**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307006**Report Date:** 04/26/13**SAMPLE RESULTS****Lab ID:** L1307006-01**Client ID:** SB-12\_CON\_TOP**Sample Location:** 514 W 27TH ST NYC**Matrix:** Concrete**Date Collected:** 04/17/13 09:50**Date Received:** 04/19/13**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.1		%	0.100	NA	1	-	04/20/13 11:35	30,2540G	TA



**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307006**Report Date:** 04/26/13**SAMPLE RESULTS****Lab ID:** L1307006-02**Client ID:** SB-28\_CON\_TOP**Sample Location:** 514 W 27TH ST NYC**Matrix:** Concrete**Date Collected:** 04/18/13 08:25**Date Received:** 04/19/13**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	04/20/13 11:35	30,2540G	TA



**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307006**Report Date:** 04/26/13**SAMPLE RESULTS****Lab ID:** L1307006-03**Client ID:** SB-10\_CON\_BOT**Sample Location:** 514 W 27TH ST NYC**Matrix:** Concrete**Date Collected:** 04/18/13 15:10**Date Received:** 04/19/13**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	04/20/13 11:35	30,2540G	TA



**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307006**Report Date:** 04/26/13**SAMPLE RESULTS****Lab ID:** L1307006-04**Client ID:** SB-17\_CON\_BOT**Sample Location:** 514 W 27TH ST NYC**Matrix:** Concrete**Date Collected:** 04/19/13 08:20**Date Received:** 04/19/13**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.4		%	0.100	NA	1	-	04/20/13 11:35	30,2540G	TA



**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307006**Report Date:** 04/26/13**SAMPLE RESULTS****Lab ID:** L1307006-05**Client ID:** SB-24\_CON\_TOP**Sample Location:** 514 W 27TH ST NYC**Matrix:** Concrete**Date Collected:** 04/19/13 10:00**Date Received:** 04/19/13**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	04/20/13 11:35	30,2540G	TA



**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307006**Report Date:** 04/26/13**SAMPLE RESULTS****Lab ID:** L1307006-06**Client ID:** SB-11\_CON\_BOT**Sample Location:** 514 W 27TH ST NYC**Matrix:** Concrete**Date Collected:** 04/19/13 11:00**Date Received:** 04/19/13**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	04/20/13 11:35	30,2540G	TA



**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Lab Number:** L1307006  
**Report Date:** 04/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG602881-1 QC Sample: L1307006-01 Client ID: SB-12_CON_TOP						
Solids, Total	95.1	94.1	%	1		20

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Reagent H2O Preserved Vials Frozen on:** NA**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307006-01A	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	TS(7),PCB-8082LL-3540C(14)
L1307006-02A	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	TS(7),PCB-8082LL-3540C(14)
L1307006-03A	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	TS(7),PCB-8082LL-3540C(14)
L1307006-04A	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	TS(7),PCB-8082LL-3540C(14)
L1307006-05A	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	TS(7),PCB-8082LL-3540C(14)
L1307006-06A	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	TS(7),PCB-8082LL-3540C(14)

\*Values in parentheses indicate holding time in days



**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307006**Project Number:** E040**Report Date:** 04/26/13

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: DU Report with "J" Qualifiers



**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307006  
**Report Date:** 04/26/13

**Data Qualifiers**

due to obvious interference.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers



**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307006  
**Report Date:** 04/26/13

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.  
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

*Drinking Water* (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; Colilert/QT SM9223B; MF-SM9222D.)

*Non-Potable Water (Inorganic Parameters:*, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

*Organic Parameters:* (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. *Microbiology Parameters:* (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

**New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. *Organic Parameters:* 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. *Organic Parameters:* SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. *Organic Parameters:* SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

**New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. *Organic Parameters:* EPA 332, 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. *Organic Parameters:* SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. *Organic Parameters:* SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

**New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

*Non-Potable Water (Inorganic Parameters:* SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. *Organic Parameters:* EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

*Solid & Hazardous Waste (Inorganic Parameters:* EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. *Organic Parameters:* EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

**North Carolina Department of the Environment and Natural Resources** Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO<sub>3</sub>-F, 353.2, 4500P-E, 4500SO<sub>4</sub>-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

**Pennsylvania Department of Environmental Protection** Certificate/Lab ID : 68-03671. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>-B, 4500NO<sub>3</sub>-F, 4500S-D, 4500SO<sub>3</sub>-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH<sub>3</sub>-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commissoon on Environmental Quality** Certificate/Lab ID: T104704476. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>B, 4500P-E, 4500 S<sup>2-</sup> D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID: 460195. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.

*Drinking Water* (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

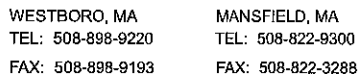
*Non-Potable Water* (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO<sub>3</sub>-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

**The following analytes are not included in our current NELAP/TNI Scope of Accreditation:**

**EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO<sub>2</sub> in a soil matrix, NO<sub>3</sub> in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.



PAGE 1 OF 1

Date Rec'd in Lab:

**ALPHA Job #:**

### Billing Information

## Project Information

Project Name: 514 W 27<sup>TH</sup> ST NYC

Project Location: 514 W 27<sup>th</sup> St NYC

Project #: E040

Project Manager: ALANA CARROLL

ALPHA Quote #:

### Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/26/13 Time:

## Client Information

Client: INTEGRAL CONSULTING

Address: 267 BROADWAY 5TH FL

NEW YORK, NY 10007

Phone: (212) 962-4301

Fax: (212) 962-4302

Email: ACARROLL@INTEGRAL-CORP.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

## Report Information - Data Deliverables

**FAX**

☒ EMAIL

☒ ADEx☐ Add'l Deliverables

## Regulatory Requirements/Report Limits

State /Fed Program

Criteria

## SAMPLE HANDLING

### Filtration

☐ Done  
☐ Not needed  
☐ Lab to do  
*Preservation*  
☐ Lab to do

(Please specify below)

### Sample Specific Comments

1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11  
 12  
 13  
 14  
 15  
 16  
 17  
 18  
 19  
 20  
 21  
 22  
 23  
 24  
 25  
 26  
 27  
 28  
 29  
 30  
 31  
 32  
 33  
 34  
 35  
 36  
 37  
 38  
 39  
 40  
 41  
 42  
 43  
 44  
 45  
 46  
 47  
 48  
 49  
 50  
 51  
 52  
 53  
 54  
 55  
 56  
 57  
 58  
 59  
 60  
 61  
 62  
 63  
 64  
 65  
 66  
 67  
 68  
 69  
 70  
 71  
 72  
 73  
 74  
 75  
 76  
 77  
 78  
 79  
 80  
 81  
 82  
 83  
 84  
 85  
 86  
 87  
 88  
 89  
 90  
 91  
 92  
 93  
 94  
 95  
 96  
 97  
 98  
 99  
 100  
 101  
 102  
 103  
 104  
 105  
 106  
 107  
 108  
 109  
 110  
 111  
 112  
 113  
 114  
 115  
 116  
 117  
 118  
 119  
 120  
 121  
 122  
 123  
 124  
 125  
 126  
 127  
 128  
 129  
 130  
 131  
 132  
 133  
 134  
 135  
 136  
 137  
 138  
 139  
 140  
 141  
 142  
 143  
 144  
 145  
 146  
 147  
 148  
 149  
 150  
 151  
 152  
 153  
 154  
 155  
 156  
 157  
 158  
 159  
 160  
 161  
 162  
 163  
 164  
 165  
 166  
 167  
 168  
 169  
 170  
 171  
 172  
 173  
 174  
 175  
 176  
 177  
 178  
 179  
 180  
 181  
 182  
 183  
 184  
 185  
 186  
 187  
 188  
 189  
 190  
 191  
 192  
 193  
 194  
 195  
 196  
 197  
 198  
 199  
 200  
 201  
 202  
 203  
 204  
 205  
 206  
 207  
 208  
 209  
 210  
 211  
 212  
 213  
 214  
 215  
 216  
 217  
 218  
 219  
 220  
 221  
 222  
 223  
 224  
 225  
 226  
 227  
 228  
 229  
 230  
 231  
 232  
 233  
 234  
 235  
 236  
 237  
 238  
 239  
 240  
 241  
 242  
 243  
 244  
 245  
 246  
 247  
 248  
 249  
 250  
 251  
 252  
 253  
 254  
 255  
 256  
 257  
 258  
 259  
 260  
 261  
 262  
 263  
 264  
 265  
 266  
 267  
 268  
 269  
 270  
 271  
 272  
 273  
 274  
 275  
 276  
 277  
 278  
 279  
 280  
 281  
 282  
 283  
 284  
 285  
 286  
 287  
 288  
 289  
 290  
 291  
 292  
 293  
 294  
 295  
 296  
 297  
 298  
 299  
 300  
 301  
 302  
 303  
 304  
 305  
 306  
 307  
 308  
 309  
 310  
 311  
 312  
 313  
 314  
 315  
 316  
 317  
 318  
 319  
 320  
 321  
 322  
 323  
 324  
 325  
 326  
 327  
 328  
 329  
 330  
 331  
 332  
 333  
 334  
 335  
 336  
 337  
 338  
 339  
 340  
 341  
 342  
 343  
 344  
 345  
 346  
 347  
 348  
 349  
 350  
 351  
 352  
 353  
 354  
 355  
 356  
 357  
 358  
 359  
 360  
 361  
 362  
 363  
 364  
 365  
 366  
 367  
 368  
 369  
 370  
 371  
 372  
 373  
 374  
 375  
 376  
 377  
 378  
 379  
 380  
 381  
 382  
 383  
 384  
 385  
 386  
 387  
 388  
 389  
 390  
 391  
 392  
 393  
 394  
 395  
 396  
 397  
 398  
 399  
 400  
 401  
 402  
 403  
 404  
 405  
 406  
 407  
 408  
 409  
 410  
 411  
 412  
 413  
 414  
 415  
 416  
 417  
 418  
 419  
 420  
 421  
 422  
 423  
 424  
 425  
 426  
 427  
 428  
 429  
 430  
 431  
 432  
 433  
 434  
 435  
 436  
 437  
 438  
 439  
 440  
 441  
 442  
 443  
 444  
 445  
 446  
 447  
 448  
 449  
 450  
 451  
 452  
 453  
 454  
 455  
 456  
 457  
 458  
 459  
 460  
 461  
 462  
 463  
 464  
 465  
 466  
 467  
 468  
 469  
 470  
 471  
 472  
 473  
 474  
 475  
 476  
 477  
 478  
 479  
 480  
 481  
 482  
 483  
 484  
 485  
 486  
 487  
 488  
 489  
 490  
 491  
 492  
 493  
 494  
 495  
 496  
 497  
 498  
 499  
 500  
 501  
 502  
 503  
 504  
 505  
 506  
 507  
 508  
 509  
 510  
 511  
 512  
 513  
 514  
 515  
 516  
 517  
 518  
 519  
 520  
 521  
 522  
 523  
 524  
 525

[illegible]

Container Type

1	Δ
---	---

Preservative

△

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.





## ANALYTICAL REPORT

Lab Number:	L1307016
Client:	Integral Consulting, Inc. 267 Broadway Fifth Floor New York, NY 10007
ATTN:	Alana Carroll
Phone:	(212) 962-4301
Project Name:	514 W. 27TH ST. NYC
Project Number:	E040
Report Date:	04/29/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1307016-01	SB-12_1-3	514 W. 27TH ST. NYC	04/18/13 15:40
L1307016-02	SB-12_7-9	514 W. 27TH ST. NYC	04/18/13 15:50
L1307016-03	SB-9_1-3	514 W. 27TH ST. NYC	04/18/13 16:10
L1307016-04	SB-9_3-5	514 W. 27TH ST. NYC	04/18/13 16:20
L1307016-05	SB-13_1-3	514 W. 27TH ST. NYC	04/18/13 16:30
L1307016-06	SB-13_7-9	514 W. 27TH ST. NYC	04/18/13 16:35
L1307016-07	SB-18_1-3	514 W. 27TH ST. NYC	04/18/13 16:45
L1307016-08	SB-18_7-9	514 W. 27TH ST. NYC	04/18/13 16:50
L1307016-09	SB-8_0-2	514 W. 27TH ST. NYC	04/18/13 17:05
L1307016-10	SB-8_8-10	514 W. 27TH ST. NYC	04/18/13 17:15
L1307016-11	SB-28_1-3	514 W. 27TH ST. NYC	04/18/13 08:40
L1307016-12	SB-28_7-9	514 W. 27TH ST. NYC	04/18/13 08:50
L1307016-13	SB-25_1-3	514 W. 27TH ST. NYC	04/18/13 09:20
L1307016-14	SB-25_7-9	514 W. 27TH ST. NYC	04/18/13 09:30
L1307016-15	SB-25_7-9_FIELD-DUP	514 W. 27TH ST. NYC	04/18/13 09:30
L1307016-16	SB-27_1-3	514 W. 27TH ST. NYC	04/18/13 14:40
L1307016-17	SB-27_7-9	514 W. 27TH ST. NYC	04/18/13 14:50
L1307016-18	SB-10_1-3	514 W. 27TH ST. NYC	04/18/13 15:10
L1307016-19	SB-10_8-10	514 W. 27TH ST. NYC	04/18/13 15:20
L1307016-20	SB-15_0-2	514 W. 27TH ST. NYC	04/19/13 08:50
L1307016-21	SB-15_8-10	514 W. 27TH ST. NYC	04/19/13 09:00
L1307016-22	SB-16_1-3	514 W. 27TH ST. NYC	04/19/13 09:30
L1307016-23	SB-16_7-9	514 W. 27TH ST. NYC	04/19/13 09:40
L1307016-24	SB-16_7-9-FIELD-DUP	514 W. 27TH ST. NYC	04/19/13 09:40
L1307016-25	SB-24_1-3	514 W. 27TH ST. NYC	04/19/13 10:10
L1307016-26	SB-24_8-10	514 W. 27TH ST. NYC	04/19/13 10:20
L1307016-27	SB-23_0-2	514 W. 27TH ST. NYC	04/19/13 10:40
L1307016-28	SB-23_7-9	514 W. 27TH ST. NYC	04/19/13 10:55
L1307016-29	SB-17_1-3	514 W. 27TH ST. NYC	04/19/13 11:10
L1307016-30	SB-17_7-9	514 W. 27TH ST. NYC	04/19/13 11:20
L1307016-31	SB-11_1-3	514 W. 27TH ST. NYC	04/19/13 11:40

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1307016-32	SB-11_7-9	514 W. 27TH ST. NYC	04/19/13 11:50
L1307016-33	SB-7_0-2	514 W. 27TH ST. NYC	04/19/13 12:10
L1307016-34	SB-7_7-9	514 W. 27TH ST. NYC	04/19/13 12:20
L1307016-35	FIELD BLANK	514 W. 27TH ST. NYC	04/19/13 00:00
L1307016-36	TRIP BLANK	514 W. 27TH ST. NYC	04/19/13 00:00
L1307016-37	SB-26_0-2	514 W. 27TH ST. NYC	04/18/13 17:25
L1307016-38	SB-26_7-9	514 W. 27TH ST. NYC	04/18/13 17:35

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

L1307016-33: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L1307016-36: The Trip Blank has results for Acetone and 2-Butanone present below the reporting limits. The sample vials were verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG603479-4 MS recovery, performed on L1307016-17, was below the acceptance criteria for Vinyl acetate (68%).

The WG603479-4/-5 MS/MSD recoveries, performed on L1307016-17, are below the acceptance criteria for Naphthalene (0%/0%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the sample utilized for the MS/MSD.

The WG603522-4/-5 MS/MSD recoveries, performed on L1307016-27, were below the acceptance criteria for Bromoform (62%/62%), 1,1,2,2-Tetrachloroethane (61%/61%), 1,4-Dichlorobenzene (MSD at 69%), Vinyl acetate (46%/38%), 4-Methyl-2-pentanone (60%/62%), 1,2,3-Trichloropropane (61%/62%), 2-Hexanone (66%/67%), 1,2-Dibromo-3-chloropropane (58%/55%), Hexachlorobutadiene (64%/53%), Naphthalene (54%/53%), Acrylonitrile (67%/67%), 1,2,3-Trichlorobenzene (59%/55%), 1,2,4-Trichlorobenzene (63%/58%), and trans-1,4-Dichloro-2-butene (50%/50%).

#### Semivolatile Organics

L1307016-05, -13, and -19 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.

L1307016-20, -29, -33, -34, and -37 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the sample matrices.

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative (continued)

The surrogate recoveries for L1307016-16 and -22 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, and 4-Terphenyl-d14 (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

The WG602875-2/-3 LCS/LCSD recoveries, associated with L1307016-01 through -20, are below the acceptance criteria for Benzoic Acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG602993-2/-3 LCS/LCSD recoveries, associated with L1307016-35, are below the acceptance criteria for Benzoic Acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

The WG602875-4/-5 MS/MSD recoveries, performed on L1307016-17, are below the acceptance criteria for 4-Chloroaniline (37%/29%).

The WG602875-5 MSD recovery, performed on L1307016-17, is below the acceptance criteria for 2,4-Dinitrophenol (0%) due to the concentration of this compound falling below the reported detection limit.

The WG602875-4/-5 MS/MSD recoveries, performed on L1307016-17, are below the acceptance criteria for Benzoic Acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

The WG602883-4/-5 MS/MSD recoveries, performed on L1307016-27, are outside the acceptance criteria 2,4-Dinitrotoluene (100%/100%), P-Chloro-M-Cresol (MS at 110%), 2,4-Dinitrophenol (0%/0%), and Benzoic Acid (0%/0%).

### PCBs

L1307016-16 has elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample.

The surrogate recoveries for L1307016-18, -31, and -37 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

L1307016-20 contains peaks which match the retention times for Aroclor 1260, but do not match the area

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative (continued)

ratios typical for this aroclor. The result for Aroclor 1260 is reported as "weathered".

L1307016-22 has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

#### Pesticides

L1307016-22, -29, -31, and -37 have elevated detection limits due to the dilutions required by the sample matrices.

The surrogate recoveries for L1307016-22, -29, and -31 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

The dual column RPDs for L1307016-33 and -34 are above the acceptance criteria for Dieldrin; however, obvious column interferences are present. Due to these interferences, the lower of the two results is reported and qualified with a "P".

The dual column RPD for L1307016-37 is above the acceptance criteria for Lindane; however, no obvious column interferences are present. The higher of the two results is reported and qualified with a "P".

#### Metals

L1307016-01 through -34, -37, and -38 have elevated detection limits for all elements, except Mercury, due to the dilutions required by the sample matrices.

The WG603116-3/-4 MS/MSD recoveries for Aluminum (0%/401%), Calcium (0%/0%), Iron (0%/0%), Magnesium (MS at 70%), and Manganese (MS at 0%), performed on L1307016-17, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG603155-3/-4 MS/MSD recoveries for Aluminum (743%/530%), Calcium (318%/636%), Iron (1060%/1060%), and Manganese (170%/170%), performed on L1307016-27, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG603155-3/-4 MS/MSD recoveries, performed on L1307016-27, are outside the acceptance criteria for Lead (MS at 73%), Magnesium (MSD at 148%), Potassium (138%/127%), Sodium (MSD at 136%), and Zinc (72%/70%). A post digestion spike was performed with acceptable recoveries for Lead (90%), Magnesium

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative (continued)

(91%), Potassium (113%), and Zinc (88%); and an unacceptable recovery for Sodium (122%). This has been attributed to sample matrix.

The WG603566-4/-5 MS/MSD recoveries for Mercury (0%/0%), performed on L1307016-17, do not apply because the sample concentration is greater than four times the spike amount added.

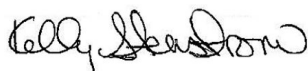
The WG603566-6/-7 MS/MSD recoveries for Mercury (0%/0%), performed on L1307016-27, do not apply because the sample concentration is greater than four times the spike amount added. In addition, the MS/MD RPD is above the acceptance criteria for Mercury (75%).

Cyanide, Total

L1307016-29 has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 04/29/13



# ORGANICS

# **VOLATILES**

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-01  
**Client ID:** SB-12\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 12:40  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 15:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.22	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.39	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.58	1
Bromoform	ND		ug/kg	5.0	0.52	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.22	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	ND		ug/kg	1.9	0.14	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	6.3	0.99	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.18	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.27	1
Trichloroethene	ND		ug/kg	1.3	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.30	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-01

Date Collected: 04/18/13 15:40

Client ID: SB-12\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.5	0.13	1
p/m-Xylene	ND		ug/kg	2.5	0.41	1
o-Xylene	ND		ug/kg	2.5	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.19	1
Dibromomethane	ND		ug/kg	13	0.21	1
Styrene	ND		ug/kg	2.5	0.39	1
Dichlorodifluoromethane	ND		ug/kg	13	0.28	1
Acetone	ND		ug/kg	13	3.9	1
Carbon disulfide	ND		ug/kg	13	2.5	1
2-Butanone	ND		ug/kg	13	0.45	1
Vinyl acetate	ND		ug/kg	13	0.60	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.28	1
2-Hexanone	ND		ug/kg	13	0.24	1
Bromochloromethane	ND		ug/kg	6.3	0.25	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.28	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.26	1
n-Butylbenzene	ND		ug/kg	1.3	0.25	1
sec-Butylbenzene	ND		ug/kg	1.3	0.26	1
tert-Butylbenzene	ND		ug/kg	6.3	0.71	1
o-Chlorotoluene	ND		ug/kg	6.3	0.20	1
p-Chlorotoluene	ND		ug/kg	6.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	1.0	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.53	1
Isopropylbenzene	ND		ug/kg	1.3	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.24	1
Naphthalene	ND		ug/kg	6.3	0.97	1
Acrylonitrile	ND		ug/kg	13	0.30	1
n-Propylbenzene	ND		ug/kg	1.3	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	1.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.72	1
1,4-Dioxane	ND		ug/kg	130	22.	1
1,4-Diethylbenzene	ND		ug/kg	5.0	0.20	1
4-Ethyltoluene	ND		ug/kg	5.0	0.15	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-01

Date Collected: 04/18/13 15:40

Client ID: SB-12\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.16	1
Ethyl ether	ND		ug/kg	6.3	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-02  
**Client ID:** SB-12\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 13:08  
**Analyst:** BN  
**Percent Solids:** 89%

**Date Collected:** 04/18/13 15:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.13	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.6	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.20	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.90	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.28	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-02  
 Client ID: SB-12\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 15:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.19	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	ND		ug/kg	11	3.6	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	ND		ug/kg	11	0.41	1
Vinyl acetate	ND		ug/kg	11	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.22	1
Bromochloromethane	ND		ug/kg	5.7	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.23	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.7	0.88	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.66	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-02

Date Collected: 04/18/13 15:50

Client ID: SB-12\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-03  
**Client ID:** SB-9\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 13:35  
**Analyst:** BN  
**Percent Solids:** 96%

**Date Collected:** 04/18/13 16:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	1.7		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.5	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	0.70	J	ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.89	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.27	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-03  
 Client ID: SB-9\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:10  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	0.80	J	ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.19	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	ND		ug/kg	11	3.5	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	ND		ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.54	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.7	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	0.72	J	ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	0.81	J	ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.7	0.88	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.65	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.5	0.18	1
4-Ethyltoluene	1.3	J	ug/kg	4.5	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-03

Date Collected: 04/18/13 16:10

Client ID: SB-9\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	127		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-04  
**Client ID:** SB-9\_3-5  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 14:03  
**Analyst:** BN  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.7	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.24	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.29	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.42	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.42	1
Tetrachloroethene	13		ug/kg	1.4	0.19	1
Chlorobenzene	ND		ug/kg	1.4	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.16	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.15	1
Bromodichloromethane	ND		ug/kg	1.4	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.62	1
Bromoform	ND		ug/kg	5.5	0.57	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.23	1
Benzene	ND		ug/kg	1.4	0.16	1
Toluene	ND		ug/kg	2.0	0.15	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	6.8	1.1	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.19	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.29	1
Trichloroethene	0.88	J	ug/kg	1.4	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.33	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-04  
 Client ID: SB-9\_3-5  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:20  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.7	0.14	1
p/m-Xylene	ND		ug/kg	2.7	0.44	1
o-Xylene	ND		ug/kg	2.7	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	14	0.22	1
Styrene	ND		ug/kg	2.7	0.42	1
Dichlorodifluoromethane	ND		ug/kg	14	0.30	1
Acetone	ND		ug/kg	14	4.2	1
Carbon disulfide	ND		ug/kg	14	2.7	1
2-Butanone	ND		ug/kg	14	0.48	1
Vinyl acetate	ND		ug/kg	14	0.66	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.31	1
2-Hexanone	ND		ug/kg	14	0.26	1
Bromochloromethane	ND		ug/kg	6.8	0.27	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.31	1
1,2-Dibromoethane	ND		ug/kg	5.5	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.28	1
n-Butylbenzene	ND		ug/kg	1.4	0.27	1
sec-Butylbenzene	ND		ug/kg	1.4	0.28	1
tert-Butylbenzene	ND		ug/kg	6.8	0.77	1
o-Chlorotoluene	ND		ug/kg	6.8	0.22	1
p-Chlorotoluene	ND		ug/kg	6.8	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	1.1	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.58	1
Isopropylbenzene	ND		ug/kg	1.4	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.26	1
Naphthalene	ND		ug/kg	6.8	1.0	1
Acrylonitrile	ND		ug/kg	14	0.32	1
n-Propylbenzene	ND		ug/kg	1.4	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.78	1
1,4-Dioxane	ND		ug/kg	140	24.	1
1,4-Diethylbenzene	ND		ug/kg	5.5	0.22	1
4-Ethyltoluene	ND		ug/kg	5.5	0.16	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-04

Date Collected: 04/18/13 16:20

Client ID: SB-9\_3-5

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.5	0.18	1
Ethyl ether	ND		ug/kg	6.8	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	123		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-05  
**Client ID:** SB-13\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/22/13 08:53  
**Analyst:** BN  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	3.1	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.27	1
Chloroform	ND		ug/kg	2.3	0.57	1
Carbon tetrachloride	ND		ug/kg	1.5	0.32	1
1,2-Dichloropropane	ND		ug/kg	5.4	0.35	1
Dibromochloromethane	ND		ug/kg	1.5	0.48	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	0.47	1
Tetrachloroethene	ND		ug/kg	1.5	0.22	1
Chlorobenzene	ND		ug/kg	1.5	0.54	1
Trichlorofluoromethane	ND		ug/kg	7.7	0.19	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.17	1
Bromodichloromethane	ND		ug/kg	1.5	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.20	1
1,1-Dichloropropene	ND		ug/kg	7.7	0.70	1
Bromoform	ND		ug/kg	6.2	0.64	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.26	1
Benzene	ND		ug/kg	1.5	0.18	1
Toluene	ND		ug/kg	2.3	0.17	1
Ethylbenzene	5.2		ug/kg	1.5	0.23	1
Chloromethane	ND		ug/kg	7.7	1.2	1
Bromomethane	ND		ug/kg	3.1	0.52	1
Vinyl chloride	ND		ug/kg	3.1	0.22	1
Chloroethane	ND		ug/kg	3.1	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.33	1
Trichloroethene	ND		ug/kg	1.5	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	7.7	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	7.7	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	7.7	0.37	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-05  
 Client ID: SB-13\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:30  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.1	0.16	1
p/m-Xylene	2.0	J	ug/kg	3.1	0.50	1
o-Xylene	7.9		ug/kg	3.1	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.23	1
Dibromomethane	ND		ug/kg	15	0.25	1
Styrene	ND		ug/kg	3.1	0.48	1
Dichlorodifluoromethane	ND		ug/kg	15	0.34	1
Acetone	36		ug/kg	15	4.8	1
Carbon disulfide	ND		ug/kg	15	3.1	1
2-Butanone	7.2	J	ug/kg	15	0.55	1
Vinyl acetate	ND		ug/kg	15	0.74	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.38	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.35	1
2-Hexanone	ND		ug/kg	15	0.29	1
Bromochloromethane	ND		ug/kg	7.7	0.30	1
2,2-Dichloropropane	ND		ug/kg	7.7	0.35	1
1,2-Dibromoethane	ND		ug/kg	6.2	0.28	1
1,3-Dichloropropane	ND		ug/kg	7.7	0.27	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.49	1
Bromobenzene	ND		ug/kg	7.7	0.32	1
n-Butylbenzene	ND		ug/kg	1.5	0.30	1
sec-Butylbenzene	1.2	J	ug/kg	1.5	0.32	1
tert-Butylbenzene	ND		ug/kg	7.7	0.87	1
o-Chlorotoluene	ND		ug/kg	7.7	0.25	1
p-Chlorotoluene	ND		ug/kg	7.7	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	7.7	0.65	1
Isopropylbenzene	2.3		ug/kg	1.5	0.26	1
p-Isopropyltoluene	3.2		ug/kg	1.5	0.30	1
Naphthalene	3.9	J	ug/kg	7.7	1.2	1
Acrylonitrile	ND		ug/kg	15	0.37	1
n-Propylbenzene	ND		ug/kg	1.5	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.7	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.7	1.2	1
1,3,5-Trimethylbenzene	2.9	J	ug/kg	7.7	0.22	1
1,2,4-Trimethylbenzene	5.9	J	ug/kg	7.7	0.89	1
1,4-Dioxane	ND		ug/kg	150	27.	1
1,4-Diethylbenzene	6.5		ug/kg	6.2	0.25	1
4-Ethyltoluene	2.0	J	ug/kg	6.2	0.18	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-05

Date Collected: 04/18/13 16:30

Client ID: SB-13\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	3.3	J	ug/kg	6.2	0.20	1
Ethyl ether	ND		ug/kg	7.7	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.7	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-06  
**Client ID:** SB-13\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 14:59  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 16:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.19	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.50	1
Bromoform	ND		ug/kg	4.4	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.5	0.86	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.15	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.26	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-06  
 Client ID: SB-13\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:35  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.11	1
p/m-Xylene	ND		ug/kg	2.2	0.35	1
o-Xylene	ND		ug/kg	2.2	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.34	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	ND		ug/kg	11	3.4	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.39	1
Vinyl acetate	ND		ug/kg	11	0.52	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.5	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.22	1
tert-Butylbenzene	ND		ug/kg	5.5	0.61	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.86	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.46	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.5	0.84	1
Acrylonitrile	ND		ug/kg	11	0.26	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.86	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.63	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-06  
 Client ID: SB-13\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:35  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

**Volatile Organics by 8260/5035 - Westborough Lab**

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-07  
**Client ID:** SB-18\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/22/13 09:21  
**Analyst:** BN  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:45  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.22	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.38	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.18	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.57	1
Bromoform	ND		ug/kg	5.0	0.52	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.21	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.14	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	6.2	0.98	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.18	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.30	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-07  
 Client ID: SB-18\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:45  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.5	0.13	1
p/m-Xylene	ND		ug/kg	2.5	0.40	1
o-Xylene	ND		ug/kg	2.5	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.19	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.5	0.39	1
Dichlorodifluoromethane	ND		ug/kg	12	0.27	1
Acetone	8.5	J	ug/kg	12	3.9	1
Carbon disulfide	ND		ug/kg	12	2.5	1
2-Butanone	1.7	J	ug/kg	12	0.44	1
Vinyl acetate	ND		ug/kg	12	0.60	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.28	1
2-Hexanone	ND		ug/kg	12	0.24	1
Bromochloromethane	ND		ug/kg	6.2	0.25	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.28	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.2	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.25	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.2	0.70	1
o-Chlorotoluene	ND		ug/kg	6.2	0.20	1
p-Chlorotoluene	ND		ug/kg	6.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.99	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.53	1
Isopropylbenzene	ND		ug/kg	1.2	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.2	0.96	1
Acrylonitrile	ND		ug/kg	12	0.30	1
n-Propylbenzene	ND		ug/kg	1.2	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.99	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.72	1
1,4-Dioxane	ND		ug/kg	120	22.	1
1,4-Diethylbenzene	ND		ug/kg	5.0	0.20	1
4-Ethyltoluene	ND		ug/kg	5.0	0.15	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-07

Date Collected: 04/18/13 16:45

Client ID: SB-18\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.16	1
Ethyl ether	ND		ug/kg	6.2	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-08  
**Client ID:** SB-18\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 15:55  
**Analyst:** BN  
**Percent Solids:** 87%

**Date Collected:** 04/18/13 16:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	3.1	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.27	1
Chloroform	ND		ug/kg	2.3	0.57	1
Carbon tetrachloride	ND		ug/kg	1.5	0.32	1
1,2-Dichloropropane	ND		ug/kg	5.4	0.35	1
Dibromochloromethane	ND		ug/kg	1.5	0.48	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	0.47	1
Tetrachloroethene	1.1	J	ug/kg	1.5	0.22	1
Chlorobenzene	ND		ug/kg	1.5	0.54	1
Trichlorofluoromethane	ND		ug/kg	7.7	0.19	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.17	1
Bromodichloromethane	ND		ug/kg	1.5	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.20	1
1,1-Dichloropropene	ND		ug/kg	7.7	0.70	1
Bromoform	ND		ug/kg	6.2	0.64	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.26	1
Benzene	ND		ug/kg	1.5	0.18	1
Toluene	ND		ug/kg	2.3	0.17	1
Ethylbenzene	ND		ug/kg	1.5	0.23	1
Chloromethane	ND		ug/kg	7.7	1.2	1
Bromomethane	ND		ug/kg	3.1	0.52	1
Vinyl chloride	ND		ug/kg	3.1	0.22	1
Chloroethane	ND		ug/kg	3.1	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.33	1
Trichloroethene	ND		ug/kg	1.5	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	7.7	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	7.7	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	7.7	0.37	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-08  
 Client ID: SB-18\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.1	0.16	1
p/m-Xylene	ND		ug/kg	3.1	0.50	1
o-Xylene	ND		ug/kg	3.1	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.23	1
Dibromomethane	ND		ug/kg	15	0.25	1
Styrene	ND		ug/kg	3.1	0.48	1
Dichlorodifluoromethane	ND		ug/kg	15	0.34	1
Acetone	11	J	ug/kg	15	4.8	1
Carbon disulfide	ND		ug/kg	15	3.1	1
2-Butanone	ND		ug/kg	15	0.55	1
Vinyl acetate	ND		ug/kg	15	0.74	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.38	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.35	1
2-Hexanone	ND		ug/kg	15	0.29	1
Bromochloromethane	ND		ug/kg	7.7	0.30	1
2,2-Dichloropropane	ND		ug/kg	7.7	0.35	1
1,2-Dibromoethane	ND		ug/kg	6.2	0.27	1
1,3-Dichloropropane	ND		ug/kg	7.7	0.27	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.49	1
Bromobenzene	ND		ug/kg	7.7	0.32	1
n-Butylbenzene	ND		ug/kg	1.5	0.30	1
sec-Butylbenzene	ND		ug/kg	1.5	0.32	1
tert-Butylbenzene	ND		ug/kg	7.7	0.87	1
o-Chlorotoluene	ND		ug/kg	7.7	0.25	1
p-Chlorotoluene	ND		ug/kg	7.7	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	7.7	0.65	1
Isopropylbenzene	ND		ug/kg	1.5	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.30	1
Naphthalene	8.1		ug/kg	7.7	1.2	1
Acrylonitrile	ND		ug/kg	15	0.37	1
n-Propylbenzene	ND		ug/kg	1.5	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.7	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.7	1.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.7	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.7	0.88	1
1,4-Dioxane	ND		ug/kg	150	27.	1
1,4-Diethylbenzene	ND		ug/kg	6.2	0.25	1
4-Ethyltoluene	ND		ug/kg	6.2	0.18	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-08

Date Collected: 04/18/13 16:50

Client ID: SB-18\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.2	0.20	1
Ethyl ether	ND		ug/kg	7.7	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.7	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	89		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-09  
**Client ID:** SB-8\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 16:23  
**Analyst:** BN  
**Percent Solids:** 79%

**Date Collected:** 04/18/13 17:05  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	4.2	J	ug/kg	18	3.6	1
1,1-Dichloroethane	ND		ug/kg	2.7	0.32	1
Chloroform	ND		ug/kg	2.7	0.67	1
Carbon tetrachloride	ND		ug/kg	1.8	0.38	1
1,2-Dichloropropane	ND		ug/kg	6.4	0.42	1
Dibromochloromethane	ND		ug/kg	1.8	0.56	1
1,1,2-Trichloroethane	ND		ug/kg	2.7	0.55	1
Tetrachloroethene	3.2		ug/kg	1.8	0.25	1
Chlorobenzene	ND		ug/kg	1.8	0.63	1
Trichlorofluoromethane	ND		ug/kg	9.1	0.22	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.8	0.20	1
Bromodichloromethane	ND		ug/kg	1.8	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.8	0.23	1
1,1-Dichloropropene	ND		ug/kg	9.1	0.83	1
Bromoform	ND		ug/kg	7.3	0.75	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.8	0.31	1
Benzene	ND		ug/kg	1.8	0.21	1
Toluene	ND		ug/kg	2.7	0.20	1
Ethylbenzene	ND		ug/kg	1.8	0.27	1
Chloromethane	ND		ug/kg	9.1	1.4	1
Bromomethane	ND		ug/kg	3.6	0.61	1
Vinyl chloride	ND		ug/kg	3.6	0.26	1
Chloroethane	ND		ug/kg	3.6	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.38	1
Trichloroethene	ND		ug/kg	1.8	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	9.1	0.33	1
1,3-Dichlorobenzene	ND		ug/kg	9.1	0.33	1
1,4-Dichlorobenzene	ND		ug/kg	9.1	0.44	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-09  
 Client ID: SB-8\_0-2  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 17:05  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.6	0.19	1
p/m-Xylene	ND		ug/kg	3.6	0.59	1
o-Xylene	ND		ug/kg	3.6	0.49	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.27	1
Dibromomethane	ND		ug/kg	18	0.30	1
Styrene	ND		ug/kg	3.6	0.56	1
Dichlorodifluoromethane	ND		ug/kg	18	0.40	1
Acetone	ND		ug/kg	18	5.6	1
Carbon disulfide	ND		ug/kg	18	3.6	1
2-Butanone	ND		ug/kg	18	0.64	1
Vinyl acetate	ND		ug/kg	18	0.87	1
4-Methyl-2-pentanone	ND		ug/kg	18	0.44	1
1,2,3-Trichloropropane	ND		ug/kg	18	0.41	1
2-Hexanone	ND		ug/kg	18	0.34	1
Bromochloromethane	ND		ug/kg	9.1	0.36	1
2,2-Dichloropropane	ND		ug/kg	9.1	0.41	1
1,2-Dibromoethane	ND		ug/kg	7.3	0.32	1
1,3-Dichloropropane	ND		ug/kg	9.1	0.31	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.8	0.58	1
Bromobenzene	ND		ug/kg	9.1	0.38	1
n-Butylbenzene	ND		ug/kg	1.8	0.36	1
sec-Butylbenzene	ND		ug/kg	1.8	0.37	1
tert-Butylbenzene	ND		ug/kg	9.1	1.0	1
o-Chlorotoluene	ND		ug/kg	9.1	0.29	1
p-Chlorotoluene	ND		ug/kg	9.1	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	9.1	0.77	1
Isopropylbenzene	ND		ug/kg	1.8	0.30	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.35	1
Naphthalene	ND		ug/kg	9.1	1.4	1
Acrylonitrile	ND		ug/kg	18	0.43	1
n-Propylbenzene	ND		ug/kg	1.8	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.1	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.1	1.4	1
1,3,5-Trimethylbenzene	ND		ug/kg	9.1	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	9.1	1.0	1
1,4-Dioxane	ND		ug/kg	180	32.	1
1,4-Diethylbenzene	ND		ug/kg	7.3	0.29	1
4-Ethyltoluene	ND		ug/kg	7.3	0.21	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-09

Date Collected: 04/18/13 17:05

Client ID: SB-8\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.3	0.24	1
Ethyl ether	ND		ug/kg	9.1	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.1	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-10  
**Client ID:** SB-8\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 16:50  
**Analyst:** BN  
**Percent Solids:** 90%

**Date Collected:** 04/18/13 17:15  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.2	J	ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	1.2		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.50	1
Bromoform	ND		ug/kg	4.4	0.46	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.5	0.87	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.16	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.27	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-10  
 Client ID: SB-8\_8-10  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 17:15  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.12	1
p/m-Xylene	ND		ug/kg	2.2	0.36	1
o-Xylene	ND		ug/kg	2.2	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.34	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	ND		ug/kg	11	3.4	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.39	1
Vinyl acetate	ND		ug/kg	11	0.53	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.5	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.5	0.62	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.88	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.47	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.5	0.85	1
Acrylonitrile	ND		ug/kg	11	0.26	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.88	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.64	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-10

Date Collected: 04/18/13 17:15

Client ID: SB-8\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-11  
**Client ID:** SB-28\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 17:18  
**Analyst:** BN  
**Percent Solids:** 75%

**Date Collected:** 04/18/13 08:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	5.0	J	ug/kg	15	3.0	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.27	1
Chloroform	ND		ug/kg	2.3	0.56	1
Carbon tetrachloride	ND		ug/kg	1.5	0.32	1
1,2-Dichloropropane	ND		ug/kg	5.3	0.34	1
Dibromochloromethane	ND		ug/kg	1.5	0.46	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	0.46	1
Tetrachloroethene	ND		ug/kg	1.5	0.21	1
Chlorobenzene	ND		ug/kg	1.5	0.52	1
Trichlorofluoromethane	ND		ug/kg	7.5	0.18	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.17	1
Bromodichloromethane	ND		ug/kg	1.5	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.19	1
1,1-Dichloropropene	ND		ug/kg	7.5	0.69	1
Bromoform	ND		ug/kg	6.0	0.62	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.26	1
Benzene	ND		ug/kg	1.5	0.18	1
Toluene	ND		ug/kg	2.3	0.17	1
Ethylbenzene	ND		ug/kg	1.5	0.22	1
Chloromethane	ND		ug/kg	7.5	1.2	1
Bromomethane	ND		ug/kg	3.0	0.51	1
Vinyl chloride	ND		ug/kg	3.0	0.21	1
Chloroethane	ND		ug/kg	3.0	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.32	1
Trichloroethene	ND		ug/kg	1.5	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	7.5	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	7.5	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	7.5	0.36	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-11

Date Collected: 04/18/13 08:40

Client ID: SB-28\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.0	0.16	1
p/m-Xylene	ND		ug/kg	3.0	0.49	1
o-Xylene	ND		ug/kg	3.0	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.22	1
Dibromomethane	ND		ug/kg	15	0.25	1
Styrene	ND		ug/kg	3.0	0.47	1
Dichlorodifluoromethane	ND		ug/kg	15	0.33	1
Acetone	ND		ug/kg	15	4.7	1
Carbon disulfide	ND		ug/kg	15	3.0	1
2-Butanone	ND		ug/kg	15	0.54	1
Vinyl acetate	ND		ug/kg	15	0.72	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.37	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.34	1
2-Hexanone	ND		ug/kg	15	0.28	1
Bromochloromethane	ND		ug/kg	7.5	0.30	1
2,2-Dichloropropane	ND		ug/kg	7.5	0.34	1
1,2-Dibromoethane	ND		ug/kg	6.0	0.27	1
1,3-Dichloropropane	ND		ug/kg	7.5	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.48	1
Bromobenzene	ND		ug/kg	7.5	0.31	1
n-Butylbenzene	ND		ug/kg	1.5	0.30	1
sec-Butylbenzene	ND		ug/kg	1.5	0.31	1
tert-Butylbenzene	ND		ug/kg	7.5	0.84	1
o-Chlorotoluene	ND		ug/kg	7.5	0.24	1
p-Chlorotoluene	ND		ug/kg	7.5	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	7.5	0.64	1
Isopropylbenzene	ND		ug/kg	1.5	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.29	1
Naphthalene	ND		ug/kg	7.5	1.2	1
Acrylonitrile	ND		ug/kg	15	0.36	1
n-Propylbenzene	ND		ug/kg	1.5	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.5	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.5	1.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.5	0.86	1
1,4-Dioxane	ND		ug/kg	150	26.	1
1,4-Diethylbenzene	ND		ug/kg	6.0	0.24	1
4-Ethyltoluene	ND		ug/kg	6.0	0.18	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-11

Date Collected: 04/18/13 08:40

Client ID: SB-28\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.0	0.20	1
Ethyl ether	ND		ug/kg	7.5	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.5	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-12  
**Client ID:** SB-28\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 17:46  
**Analyst:** BN  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 08:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.3	J	ug/kg	10	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.19	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.32	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.15	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.12	1
Bromodichloromethane	ND		ug/kg	1.0	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.48	1
Bromoform	ND		ug/kg	4.2	0.43	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.18	1
Benzene	ND		ug/kg	1.0	0.12	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	5.2	0.82	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.15	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.22	1
Trichloroethene	ND		ug/kg	1.0	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.25	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-12  
 Client ID: SB-28\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 08:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.1	0.11	1
p/m-Xylene	ND		ug/kg	2.1	0.34	1
o-Xylene	ND		ug/kg	2.1	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.16	1
Dibromomethane	ND		ug/kg	10	0.17	1
Styrene	ND		ug/kg	2.1	0.32	1
Dichlorodifluoromethane	ND		ug/kg	10	0.23	1
Acetone	ND		ug/kg	10	3.2	1
Carbon disulfide	ND		ug/kg	10	2.1	1
2-Butanone	ND		ug/kg	10	0.37	1
Vinyl acetate	ND		ug/kg	10	0.50	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.24	1
2-Hexanone	ND		ug/kg	10	0.20	1
Bromochloromethane	ND		ug/kg	5.2	0.21	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.22	1
n-Butylbenzene	ND		ug/kg	1.0	0.21	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.2	0.59	1
o-Chlorotoluene	ND		ug/kg	5.2	0.17	1
p-Chlorotoluene	ND		ug/kg	5.2	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.83	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.44	1
Isopropylbenzene	ND		ug/kg	1.0	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.20	1
Naphthalene	ND		ug/kg	5.2	0.81	1
Acrylonitrile	ND		ug/kg	10	0.25	1
n-Propylbenzene	ND		ug/kg	1.0	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.83	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.60	1
1,4-Dioxane	ND		ug/kg	100	18.	1
1,4-Diethylbenzene	ND		ug/kg	4.2	0.17	1
4-Ethyltoluene	ND		ug/kg	4.2	0.12	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-12  
 Client ID: SB-28\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 08:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.14	1
Ethyl ether	ND		ug/kg	5.2	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-13  
**Client ID:** SB-25\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 18:14  
**Analyst:** BN  
**Percent Solids:** 87%

**Date Collected:** 04/18/13 09:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.6	J	ug/kg	12	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.22	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.2	0.38	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	8.1		ug/kg	1.2	0.18	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.57	1
Bromoform	ND		ug/kg	5.0	0.52	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.21	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	3.8		ug/kg	1.9	0.14	1
Ethylbenzene	55		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	6.3	0.98	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.18	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	0.85	J	ug/kg	1.2	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,4-Dichlorobenzene	1.0	J	ug/kg	6.3	0.30	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-13  
 Client ID: SB-25\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 09:20  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.5	0.13	1
p/m-Xylene	26		ug/kg	2.5	0.40	1
o-Xylene	15		ug/kg	2.5	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.19	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	1.3	J	ug/kg	2.5	0.39	1
Dichlorodifluoromethane	ND		ug/kg	12	0.27	1
Acetone	78		ug/kg	12	3.9	1
Carbon disulfide	12		ug/kg	12	2.5	1
2-Butanone	14		ug/kg	12	0.44	1
Vinyl acetate	ND		ug/kg	12	0.60	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.28	1
2-Hexanone	ND		ug/kg	12	0.24	1
Bromochloromethane	ND		ug/kg	6.3	0.25	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.28	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.25	1
sec-Butylbenzene	1.3		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.3	0.70	1
o-Chlorotoluene	ND		ug/kg	6.3	0.20	1
p-Chlorotoluene	ND		ug/kg	6.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.99	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.53	1
Isopropylbenzene	7.8		ug/kg	1.2	0.21	1
p-Isopropyltoluene	2.5		ug/kg	1.2	0.24	1
Naphthalene	30		ug/kg	6.3	0.96	1
Acrylonitrile	ND		ug/kg	12	0.30	1
n-Propylbenzene	4.5		ug/kg	1.2	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.99	1
1,3,5-Trimethylbenzene	17		ug/kg	6.3	0.18	1
1,2,4-Trimethylbenzene	46		ug/kg	6.3	0.72	1
1,4-Dioxane	ND		ug/kg	120	22.	1
1,4-Diethylbenzene	ND		ug/kg	5.0	0.20	1
4-Ethyltoluene	23		ug/kg	5.0	0.15	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-13

Date Collected: 04/18/13 09:20

Client ID: SB-25\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	2.2	J	ug/kg	5.0	0.16	1
Ethyl ether	ND		ug/kg	6.3	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	130		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-14  
**Client ID:** SB-25\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 18:42  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.5	J	ug/kg	12	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.53	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.8	0.91	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.28	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-14  
 Client ID: SB-25\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 09:30  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.25	1
Acetone	ND		ug/kg	12	3.6	1
Carbon disulfide	ND		ug/kg	12	2.3	1
2-Butanone	ND		ug/kg	12	0.41	1
Vinyl acetate	ND		ug/kg	12	0.56	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.8	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.8	0.65	1
o-Chlorotoluene	ND		ug/kg	5.8	0.18	1
p-Chlorotoluene	ND		ug/kg	5.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.91	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	ND		ug/kg	5.8	0.89	1
Acrylonitrile	ND		ug/kg	12	0.28	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.91	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.66	1
1,4-Dioxane	ND		ug/kg	120	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.14	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-14  
 Client ID: SB-25\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 09:30  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

**Volatile Organics by 8260/5035 - Westborough Lab**

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-15  
**Client ID:** SB-25\_7-9\_FIELD-DUP  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/21/13 19:10  
**Analyst:** BN  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3.5	J	ug/kg	13	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.22	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.39	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.57	1
Bromoform	ND		ug/kg	5.0	0.52	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.22	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	ND		ug/kg	1.9	0.14	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	6.3	0.99	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.18	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.27	1
Trichloroethene	ND		ug/kg	1.3	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.30	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-15

Date Collected: 04/18/13 09:30

Client ID: SB-25\_7-9\_FIELD-DUP

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.5	0.13	1
p/m-Xylene	ND		ug/kg	2.5	0.41	1
o-Xylene	ND		ug/kg	2.5	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.19	1
Dibromomethane	ND		ug/kg	13	0.21	1
Styrene	ND		ug/kg	2.5	0.39	1
Dichlorodifluoromethane	ND		ug/kg	13	0.28	1
Acetone	ND		ug/kg	13	3.9	1
Carbon disulfide	ND		ug/kg	13	2.5	1
2-Butanone	ND		ug/kg	13	0.45	1
Vinyl acetate	ND		ug/kg	13	0.60	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.28	1
2-Hexanone	ND		ug/kg	13	0.24	1
Bromochloromethane	ND		ug/kg	6.3	0.25	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.28	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.26	1
n-Butylbenzene	ND		ug/kg	1.3	0.25	1
sec-Butylbenzene	ND		ug/kg	1.3	0.26	1
tert-Butylbenzene	ND		ug/kg	6.3	0.71	1
o-Chlorotoluene	ND		ug/kg	6.3	0.20	1
p-Chlorotoluene	ND		ug/kg	6.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	1.0	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.53	1
Isopropylbenzene	ND		ug/kg	1.3	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.24	1
Naphthalene	ND		ug/kg	6.3	0.97	1
Acrylonitrile	ND		ug/kg	13	0.30	1
n-Propylbenzene	ND		ug/kg	1.3	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	1.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.72	1
1,4-Dioxane	ND		ug/kg	130	22.	1
1,4-Diethylbenzene	ND		ug/kg	5.0	0.20	1
4-Ethyltoluene	ND		ug/kg	5.0	0.15	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-15

Date Collected: 04/18/13 09:30

Client ID: SB-25\_7-9\_FIELD-DUP

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.16	1
Ethyl ether	ND		ug/kg	6.3	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-16 D2  
**Client ID:** SB-27\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 15:17  
**Analyst:** BN  
**Percent Solids:** 83%

**Date Collected:** 04/18/13 14:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Naphthalene	1000000		ug/kg	41000	6300	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-16 D  
**Client ID:** SB-27\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/22/13 18:10  
**Analyst:** BN  
**Percent Solids:** 83%

**Date Collected:** 04/18/13 14:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	18000	3700	20
1,1-Dichloroethane	ND		ug/kg	2800	330	20
Chloroform	ND		ug/kg	2800	680	20
Carbon tetrachloride	ND		ug/kg	1800	390	20
1,2-Dichloropropane	ND		ug/kg	6400	420	20
Dibromochloromethane	ND		ug/kg	1800	570	20
1,1,2-Trichloroethane	ND		ug/kg	2800	560	20
Tetrachloroethene	ND		ug/kg	1800	260	20
Chlorobenzene	ND		ug/kg	1800	640	20
Trichlorofluoromethane	ND		ug/kg	9200	220	20
1,2-Dichloroethane	ND		ug/kg	1800	270	20
1,1,1-Trichloroethane	ND		ug/kg	1800	200	20
Bromodichloromethane	ND		ug/kg	1800	420	20
trans-1,3-Dichloropropene	ND		ug/kg	1800	220	20
cis-1,3-Dichloropropene	ND		ug/kg	1800	230	20
1,1-Dichloropropene	ND		ug/kg	9200	840	20
Bromoform	ND		ug/kg	7400	760	20
1,1,2,2-Tetrachloroethane	ND		ug/kg	1800	310	20
Benzene	ND		ug/kg	1800	220	20
Toluene	ND		ug/kg	2800	210	20
Ethylbenzene	ND		ug/kg	1800	270	20
Chloromethane	ND		ug/kg	9200	1400	20
Bromomethane	ND		ug/kg	3700	620	20
Vinyl chloride	ND		ug/kg	3700	260	20
Chloroethane	ND		ug/kg	3700	580	20
1,1-Dichloroethene	ND		ug/kg	1800	380	20
trans-1,2-Dichloroethene	ND		ug/kg	2800	390	20
Trichloroethene	ND		ug/kg	1800	280	20
1,2-Dichlorobenzene	ND		ug/kg	9200	340	20
1,3-Dichlorobenzene	ND		ug/kg	9200	340	20
1,4-Dichlorobenzene	ND		ug/kg	9200	440	20

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-16 D

Date Collected: 04/18/13 14:40

Client ID: SB-27\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3700	190	20
p/m-Xylene	ND		ug/kg	3700	590	20
o-Xylene	ND		ug/kg	3700	500	20
cis-1,2-Dichloroethene	ND		ug/kg	1800	280	20
Dibromomethane	ND		ug/kg	18000	300	20
Styrene	ND		ug/kg	3700	570	20
Dichlorodifluoromethane	ND		ug/kg	18000	400	20
Acetone	ND		ug/kg	18000	5700	20
Carbon disulfide	ND		ug/kg	18000	3700	20
2-Butanone	ND		ug/kg	18000	650	20
Vinyl acetate	ND		ug/kg	18000	880	20
4-Methyl-2-pentanone	ND		ug/kg	18000	450	20
1,2,3-Trichloropropane	ND		ug/kg	18000	410	20
2-Hexanone	ND		ug/kg	18000	350	20
Bromochloromethane	ND		ug/kg	9200	360	20
2,2-Dichloropropane	ND		ug/kg	9200	420	20
1,2-Dibromoethane	ND		ug/kg	7400	330	20
1,3-Dichloropropane	ND		ug/kg	9200	320	20
1,1,1,2-Tetrachloroethane	ND		ug/kg	1800	590	20
Bromobenzene	ND		ug/kg	9200	380	20
n-Butylbenzene	ND		ug/kg	1800	360	20
sec-Butylbenzene	ND		ug/kg	1800	380	20
tert-Butylbenzene	ND		ug/kg	9200	1000	20
o-Chlorotoluene	ND		ug/kg	9200	290	20
p-Chlorotoluene	ND		ug/kg	9200	280	20
1,2-Dibromo-3-chloropropane	ND		ug/kg	9200	1400	20
Hexachlorobutadiene	ND		ug/kg	9200	780	20
Isopropylbenzene	ND		ug/kg	1800	310	20
p-Isopropyltoluene	ND		ug/kg	1800	350	20
Naphthalene	690000	E	ug/kg	9200	1400	20
Acrylonitrile	ND		ug/kg	18000	440	20
n-Propylbenzene	ND		ug/kg	1800	230	20
1,2,3-Trichlorobenzene	ND		ug/kg	9200	310	20
1,2,4-Trichlorobenzene	ND		ug/kg	9200	1400	20
1,3,5-Trimethylbenzene	ND		ug/kg	9200	260	20
1,2,4-Trimethylbenzene	1700	J	ug/kg	9200	1000	20
1,4-Dioxane	ND		ug/kg	180000	32000	20
1,4-Diethylbenzene	2600	J	ug/kg	7400	290	20
4-Ethyltoluene	2400	J	ug/kg	7400	220	20

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-16 D

Date Collected: 04/18/13 14:40

Client ID: SB-27\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	430	J	ug/kg	7400	240	20
Ethyl ether	ND		ug/kg	9200	490	20
trans-1,4-Dichloro-2-butene	ND		ug/kg	9200	820	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	94		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-17  
**Client ID:** SB-27\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 09:43  
**Analyst:** BN  
**Percent Solids:** 90%

**Date Collected:** 04/18/13 14:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.13	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.6	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.89	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.28	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-17  
 Client ID: SB-27\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 14:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.19	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	ND		ug/kg	11	3.5	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	ND		ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.7	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	35		ug/kg	5.7	0.88	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.65	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-17

Date Collected: 04/18/13 14:50

Client ID: SB-27\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-18  
**Client ID:** SB-10\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 11:07  
**Analyst:** BN  
**Percent Solids:** 89%

**Date Collected:** 04/18/13 15:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	1.9		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.51	1
Bromoform	ND		ug/kg	4.5	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	1.0	J	ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.6	0.88	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.16	1
Chloroethane	ND		ug/kg	2.2	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.27	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-18  
 Client ID: SB-10\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 15:10  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.12	1
p/m-Xylene	ND		ug/kg	2.2	0.36	1
o-Xylene	ND		ug/kg	2.2	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	15		ug/kg	11	3.5	1
Carbon disulfide	3.6	J	ug/kg	11	2.2	1
2-Butanone	2.1	J	ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.54	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.6	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.6	0.63	1
o-Chlorotoluene	ND		ug/kg	5.6	0.18	1
p-Chlorotoluene	ND		ug/kg	5.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.89	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	200		ug/kg	5.6	0.87	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.89	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trimethylbenzene	0.86	J	ug/kg	5.6	0.65	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	1.0	J	ug/kg	4.5	0.18	1
4-Ethyltoluene	0.64	J	ug/kg	4.5	0.13	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-18

Date Collected: 04/18/13 15:10

Client ID: SB-10\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	0.50	J	ug/kg	4.5	0.15	1
Ethyl ether	ND		ug/kg	5.6	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	91		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-19  
**Client ID:** SB-10\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 11:34  
**Analyst:** BN  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 15:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.21	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.54	1
Bromoform	ND		ug/kg	4.7	0.49	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.9	0.93	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.17	1
Chloroethane	ND		ug/kg	2.4	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.29	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-19  
 Client ID: SB-10\_8-10  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 15:20  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.12	1
p/m-Xylene	ND		ug/kg	2.4	0.38	1
o-Xylene	ND		ug/kg	2.4	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.4	0.37	1
Dichlorodifluoromethane	ND		ug/kg	12	0.26	1
Acetone	ND		ug/kg	12	3.7	1
Carbon disulfide	ND		ug/kg	12	2.4	1
2-Butanone	ND		ug/kg	12	0.42	1
Vinyl acetate	ND		ug/kg	12	0.57	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.27	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.9	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	5.9	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.9	0.66	1
o-Chlorotoluene	ND		ug/kg	5.9	0.19	1
p-Chlorotoluene	ND		ug/kg	5.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.94	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.50	1
Isopropylbenzene	ND		ug/kg	1.2	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.23	1
Naphthalene	0.99	J	ug/kg	5.9	0.91	1
Acrylonitrile	ND		ug/kg	12	0.28	1
n-Propylbenzene	ND		ug/kg	1.2	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.94	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	0.68	1
1,4-Dioxane	ND		ug/kg	120	21.	1
1,4-Diethylbenzene	ND		ug/kg	4.7	0.19	1
4-Ethyltoluene	ND		ug/kg	4.7	0.14	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-19

Date Collected: 04/18/13 15:20

Client ID: SB-10\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.7	0.15	1
Ethyl ether	ND		ug/kg	5.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-20  
**Client ID:** SB-15\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 18:04  
**Analyst:** BN  
**Percent Solids:** 93%

**Date Collected:** 04/19/13 08:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.22	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.2	0.39	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.18	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.57	1
Bromoform	ND		ug/kg	5.0	0.52	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.21	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.14	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	6.3	0.98	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.18	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	38		ug/kg	1.2	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.30	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-20

Date Collected: 04/19/13 08:50

Client ID: SB-15\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.5	0.13	1
p/m-Xylene	ND		ug/kg	2.5	0.40	1
o-Xylene	ND		ug/kg	2.5	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.19	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.5	0.39	1
Dichlorodifluoromethane	ND		ug/kg	12	0.27	1
Acetone	ND		ug/kg	12	3.9	1
Carbon disulfide	ND		ug/kg	12	2.5	1
2-Butanone	ND		ug/kg	12	0.44	1
Vinyl acetate	ND		ug/kg	12	0.60	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.28	1
2-Hexanone	ND		ug/kg	12	0.24	1
Bromochloromethane	ND		ug/kg	6.3	0.25	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.28	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.25	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.3	0.70	1
o-Chlorotoluene	ND		ug/kg	6.3	0.20	1
p-Chlorotoluene	ND		ug/kg	6.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.99	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.53	1
Isopropylbenzene	ND		ug/kg	1.2	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.3	0.96	1
Acrylonitrile	ND		ug/kg	12	0.30	1
n-Propylbenzene	ND		ug/kg	1.2	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.99	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.72	1
1,4-Dioxane	ND		ug/kg	120	22.	1
1,4-Diethylbenzene	ND		ug/kg	5.0	0.20	1
4-Ethyltoluene	ND		ug/kg	5.0	0.15	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-20

Date Collected: 04/19/13 08:50

Client ID: SB-15\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.16	1
Ethyl ether	ND		ug/kg	6.3	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-21  
**Client ID:** SB-15\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 12:30  
**Analyst:** BN  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 09:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.20	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.50	1
Bromoform	ND		ug/kg	4.4	0.46	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.5	0.86	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.16	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.27	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-21

Date Collected: 04/19/13 09:00

Client ID: SB-15\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.12	1
p/m-Xylene	ND		ug/kg	2.2	0.36	1
o-Xylene	ND		ug/kg	2.2	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.34	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	ND		ug/kg	11	3.4	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.39	1
Vinyl acetate	ND		ug/kg	11	0.53	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.5	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.5	0.62	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.87	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.47	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.5	0.85	1
Acrylonitrile	ND		ug/kg	11	0.26	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.87	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.63	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-21

Date Collected: 04/19/13 09:00

Client ID: SB-15\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-22  
**Client ID:** SB-16\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 15:26  
**Analyst:** BN  
**Percent Solids:** 76%

**Date Collected:** 04/19/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	840	170	1
1,1-Dichloroethane	ND		ug/kg	130	15.	1
Chloroform	ND		ug/kg	130	31.	1
Carbon tetrachloride	ND		ug/kg	84	18.	1
1,2-Dichloropropane	ND		ug/kg	300	19.	1
Dibromochloromethane	ND		ug/kg	84	26.	1
1,1,2-Trichloroethane	ND		ug/kg	130	26.	1
Tetrachloroethene	ND		ug/kg	84	12.	1
Chlorobenzene	ND		ug/kg	84	29.	1
Trichlorofluoromethane	ND		ug/kg	420	10.	1
1,2-Dichloroethane	ND		ug/kg	84	12.	1
1,1,1-Trichloroethane	ND		ug/kg	84	9.3	1
Bromodichloromethane	ND		ug/kg	84	19.	1
trans-1,3-Dichloropropene	ND		ug/kg	84	10.	1
cis-1,3-Dichloropropene	ND		ug/kg	84	11.	1
1,1-Dichloropropene	ND		ug/kg	420	38.	1
Bromoform	ND		ug/kg	340	35.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	84	14.	1
Benzene	ND		ug/kg	84	9.9	1
Toluene	63	J	ug/kg	130	9.4	1
Ethylbenzene	ND		ug/kg	84	12.	1
Chloromethane	ND		ug/kg	420	66.	1
Bromomethane	ND		ug/kg	170	28.	1
Vinyl chloride	ND		ug/kg	170	12.	1
Chloroethane	ND		ug/kg	170	27.	1
1,1-Dichloroethene	ND		ug/kg	84	17.	1
trans-1,2-Dichloroethene	ND		ug/kg	130	18.	1
Trichloroethene	ND		ug/kg	84	13.	1
1,2-Dichlorobenzene	ND		ug/kg	420	15.	1
1,3-Dichlorobenzene	ND		ug/kg	420	15.	1
1,4-Dichlorobenzene	ND		ug/kg	420	20.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-22  
 Client ID: SB-16\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 09:30  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	170	8.8	1
p/m-Xylene	160	J	ug/kg	170	27.	1
o-Xylene	100	J	ug/kg	170	23.	1
cis-1,2-Dichloroethene	ND		ug/kg	84	12.	1
Dibromomethane	ND		ug/kg	840	14.	1
Styrene	ND		ug/kg	170	26.	1
Dichlorodifluoromethane	ND		ug/kg	840	18.	1
Acetone	ND		ug/kg	840	260	1
Carbon disulfide	ND		ug/kg	840	170	1
2-Butanone	ND		ug/kg	840	30.	1
Vinyl acetate	ND		ug/kg	840	40.	1
4-Methyl-2-pentanone	ND		ug/kg	840	21.	1
1,2,3-Trichloropropane	ND		ug/kg	840	19.	1
2-Hexanone	ND		ug/kg	840	16.	1
Bromochloromethane	ND		ug/kg	420	17.	1
2,2-Dichloropropane	ND		ug/kg	420	19.	1
1,2-Dibromoethane	ND		ug/kg	340	15.	1
1,3-Dichloropropane	ND		ug/kg	420	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	84	27.	1
Bromobenzene	ND		ug/kg	420	18.	1
n-Butylbenzene	ND		ug/kg	84	17.	1
sec-Butylbenzene	ND		ug/kg	84	17.	1
tert-Butylbenzene	ND		ug/kg	420	47.	1
o-Chlorotoluene	ND		ug/kg	420	13.	1
p-Chlorotoluene	ND		ug/kg	420	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	420	66.	1
Hexachlorobutadiene	ND		ug/kg	420	36.	1
Isopropylbenzene	ND		ug/kg	84	14.	1
p-Isopropyltoluene	ND		ug/kg	84	16.	1
Naphthalene	25000	E	ug/kg	420	65.	1
Acrylonitrile	ND		ug/kg	840	20.	1
n-Propylbenzene	ND		ug/kg	84	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	420	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	420	66.	1
1,3,5-Trimethylbenzene	120	J	ug/kg	420	12.	1
1,2,4-Trimethylbenzene	290	J	ug/kg	420	48.	1
1,4-Dioxane	ND		ug/kg	8400	1500	1
1,4-Diethylbenzene	140	J	ug/kg	340	13.	1
4-Ethyltoluene	100	J	ug/kg	340	9.9	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-22  
 Client ID: SB-16\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 09:30  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	74	J	ug/kg	340	11.	1
Ethyl ether	ND		ug/kg	420	22.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	420	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-22      D  
**Client ID:** SB-16\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/24/13 09:51  
**Analyst:** BN  
**Percent Solids:** 76%

**Date Collected:** 04/19/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Naphthalene	43000		ug/kg	2100	320	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-23  
**Client ID:** SB-16\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 12:58  
**Analyst:** BN  
**Percent Solids:** 88%

**Date Collected:** 04/19/13 09:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.21	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.37	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.54	1
Bromoform	ND		ug/kg	4.8	0.49	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.9	0.93	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.17	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.29	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-23  
 Client ID: SB-16\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 09:40  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.12	1
p/m-Xylene	ND		ug/kg	2.4	0.38	1
o-Xylene	ND		ug/kg	2.4	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.4	0.37	1
Dichlorodifluoromethane	ND		ug/kg	12	0.26	1
Acetone	ND		ug/kg	12	3.7	1
Carbon disulfide	ND		ug/kg	12	2.4	1
2-Butanone	ND		ug/kg	12	0.42	1
Vinyl acetate	ND		ug/kg	12	0.57	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.27	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.9	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	5.9	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.9	0.67	1
o-Chlorotoluene	ND		ug/kg	5.9	0.19	1
p-Chlorotoluene	ND		ug/kg	5.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.94	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.50	1
Isopropylbenzene	ND		ug/kg	1.2	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.23	1
Naphthalene	5.5	J	ug/kg	5.9	0.92	1
Acrylonitrile	ND		ug/kg	12	0.28	1
n-Propylbenzene	ND		ug/kg	1.2	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.94	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	0.68	1
1,4-Dioxane	ND		ug/kg	120	21.	1
1,4-Diethylbenzene	ND		ug/kg	4.8	0.19	1
4-Ethyltoluene	ND		ug/kg	4.8	0.14	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-23

Date Collected: 04/19/13 09:40

Client ID: SB-16\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.15	1
Ethyl ether	ND		ug/kg	5.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-24  
**Client ID:** SB-16\_7-9-FIELD-DUP  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 13:26  
**Analyst:** BN  
**Percent Solids:** 92%

**Date Collected:** 04/19/13 09:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.19	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.33	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.49	1
Bromoform	ND		ug/kg	4.3	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.18	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.4	0.85	1
Bromomethane	ND		ug/kg	2.2	0.36	1
Vinyl chloride	ND		ug/kg	2.2	0.15	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.26	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-24

Date Collected: 04/19/13 09:40

Client ID: SB-16\_7-9-FIELD-DUP

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.11	1
p/m-Xylene	ND		ug/kg	2.2	0.35	1
o-Xylene	ND		ug/kg	2.2	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.33	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	ND		ug/kg	11	3.4	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.38	1
Vinyl acetate	ND		ug/kg	11	0.52	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.24	1
2-Hexanone	ND		ug/kg	11	0.20	1
Bromochloromethane	ND		ug/kg	5.4	0.21	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.21	1
sec-Butylbenzene	ND		ug/kg	1.1	0.22	1
tert-Butylbenzene	ND		ug/kg	5.4	0.61	1
o-Chlorotoluene	ND		ug/kg	5.4	0.17	1
p-Chlorotoluene	ND		ug/kg	5.4	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.85	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.46	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	1.9	J	ug/kg	5.4	0.83	1
Acrylonitrile	ND		ug/kg	11	0.26	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.85	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.62	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.3	0.17	1
4-Ethyltoluene	ND		ug/kg	4.3	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-24

Date Collected: 04/19/13 09:40

Client ID: SB-16\_7-9-FIELD-DUP

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.4	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-25  
**Client ID:** SB-24\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 13:53  
**Analyst:** BN  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 10:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	2.9	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.26	1
Chloroform	ND		ug/kg	2.2	0.54	1
Carbon tetrachloride	ND		ug/kg	1.5	0.31	1
1,2-Dichloropropane	ND		ug/kg	5.1	0.34	1
Dibromochloromethane	ND		ug/kg	1.5	0.45	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.45	1
Tetrachloroethene	2.1		ug/kg	1.5	0.20	1
Chlorobenzene	ND		ug/kg	1.5	0.51	1
Trichlorofluoromethane	ND		ug/kg	7.3	0.18	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.16	1
Bromodichloromethane	ND		ug/kg	1.5	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.19	1
1,1-Dichloropropene	ND		ug/kg	7.3	0.67	1
Bromoform	ND		ug/kg	5.9	0.61	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.25	1
Benzene	ND		ug/kg	1.5	0.17	1
Toluene	ND		ug/kg	2.2	0.16	1
Ethylbenzene	ND		ug/kg	1.5	0.22	1
Chloromethane	ND		ug/kg	7.3	1.1	1
Bromomethane	ND		ug/kg	2.9	0.50	1
Vinyl chloride	ND		ug/kg	2.9	0.21	1
Chloroethane	ND		ug/kg	2.9	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.31	1
Trichloroethene	ND		ug/kg	1.5	0.22	1
1,2-Dichlorobenzene	ND		ug/kg	7.3	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	7.3	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	7.3	0.35	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-25  
 Client ID: SB-24\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 10:10  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.9	0.15	1
p/m-Xylene	ND		ug/kg	2.9	0.47	1
o-Xylene	ND		ug/kg	2.9	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.22	1
Dibromomethane	ND		ug/kg	15	0.24	1
Styrene	ND		ug/kg	2.9	0.45	1
Dichlorodifluoromethane	ND		ug/kg	15	0.32	1
Acetone	ND		ug/kg	15	4.6	1
Carbon disulfide	ND		ug/kg	15	2.9	1
2-Butanone	ND		ug/kg	15	0.52	1
Vinyl acetate	ND		ug/kg	15	0.70	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.36	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.33	1
2-Hexanone	ND		ug/kg	15	0.28	1
Bromochloromethane	ND		ug/kg	7.3	0.29	1
2,2-Dichloropropane	ND		ug/kg	7.3	0.33	1
1,2-Dibromoethane	ND		ug/kg	5.9	0.26	1
1,3-Dichloropropane	ND		ug/kg	7.3	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.47	1
Bromobenzene	ND		ug/kg	7.3	0.30	1
n-Butylbenzene	ND		ug/kg	1.5	0.29	1
sec-Butylbenzene	ND		ug/kg	1.5	0.30	1
tert-Butylbenzene	ND		ug/kg	7.3	0.82	1
o-Chlorotoluene	ND		ug/kg	7.3	0.23	1
p-Chlorotoluene	ND		ug/kg	7.3	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.3	1.2	1
Hexachlorobutadiene	ND		ug/kg	7.3	0.62	1
Isopropylbenzene	ND		ug/kg	1.5	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.28	1
Naphthalene	ND		ug/kg	7.3	1.1	1
Acrylonitrile	ND		ug/kg	15	0.35	1
n-Propylbenzene	ND		ug/kg	1.5	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.3	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.3	1.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.3	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.3	0.84	1
1,4-Dioxane	ND		ug/kg	150	26.	1
1,4-Diethylbenzene	ND		ug/kg	5.9	0.23	1
4-Ethyltoluene	ND		ug/kg	5.9	0.17	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-25

Date Collected: 04/19/13 10:10

Client ID: SB-24\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.9	0.19	1
Ethyl ether	ND		ug/kg	7.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.3	0.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-26  
**Client ID:** SB-24\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 14:21  
**Analyst:** BN  
**Percent Solids:** 83%

**Date Collected:** 04/19/13 10:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	16	3.2	1
1,1-Dichloroethane	ND		ug/kg	2.4	0.28	1
Chloroform	ND		ug/kg	2.4	0.59	1
Carbon tetrachloride	ND		ug/kg	1.6	0.34	1
1,2-Dichloropropane	ND		ug/kg	5.6	0.36	1
Dibromochloromethane	ND		ug/kg	1.6	0.49	1
1,1,2-Trichloroethane	ND		ug/kg	2.4	0.48	1
Tetrachloroethene	0.96	J	ug/kg	1.6	0.22	1
Chlorobenzene	ND		ug/kg	1.6	0.55	1
Trichlorofluoromethane	ND		ug/kg	8.0	0.19	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.18	1
Bromodichloromethane	ND		ug/kg	1.6	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.20	1
1,1-Dichloropropene	ND		ug/kg	8.0	0.73	1
Bromoform	ND		ug/kg	6.4	0.66	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.27	1
Benzene	ND		ug/kg	1.6	0.19	1
Toluene	ND		ug/kg	2.4	0.18	1
Ethylbenzene	ND		ug/kg	1.6	0.24	1
Chloromethane	ND		ug/kg	8.0	1.2	1
Bromomethane	ND		ug/kg	3.2	0.54	1
Vinyl chloride	ND		ug/kg	3.2	0.22	1
Chloroethane	ND		ug/kg	3.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.34	1
Trichloroethene	ND		ug/kg	1.6	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	8.0	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	8.0	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	8.0	0.38	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-26

Date Collected: 04/19/13 10:20

Client ID: SB-24\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.2	0.17	1
p/m-Xylene	ND		ug/kg	3.2	0.51	1
o-Xylene	ND		ug/kg	3.2	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.24	1
Dibromomethane	ND		ug/kg	16	0.26	1
Styrene	ND		ug/kg	3.2	0.49	1
Dichlorodifluoromethane	ND		ug/kg	16	0.35	1
Acetone	ND		ug/kg	16	4.9	1
Carbon disulfide	ND		ug/kg	16	3.2	1
2-Butanone	ND		ug/kg	16	0.57	1
Vinyl acetate	ND		ug/kg	16	0.76	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.39	1
1,2,3-Trichloropropane	ND		ug/kg	16	0.36	1
2-Hexanone	ND		ug/kg	16	0.30	1
Bromochloromethane	ND		ug/kg	8.0	0.31	1
2,2-Dichloropropane	ND		ug/kg	8.0	0.36	1
1,2-Dibromoethane	ND		ug/kg	6.4	0.28	1
1,3-Dichloropropane	ND		ug/kg	8.0	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.51	1
Bromobenzene	ND		ug/kg	8.0	0.33	1
n-Butylbenzene	ND		ug/kg	1.6	0.32	1
sec-Butylbenzene	ND		ug/kg	1.6	0.33	1
tert-Butylbenzene	ND		ug/kg	8.0	0.89	1
o-Chlorotoluene	ND		ug/kg	8.0	0.25	1
p-Chlorotoluene	ND		ug/kg	8.0	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.0	1.2	1
Hexachlorobutadiene	ND		ug/kg	8.0	0.67	1
Isopropylbenzene	ND		ug/kg	1.6	0.27	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.30	1
Naphthalene	17		ug/kg	8.0	1.2	1
Acrylonitrile	ND		ug/kg	16	0.38	1
n-Propylbenzene	ND		ug/kg	1.6	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.0	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.0	1.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.0	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	8.0	0.91	1
1,4-Dioxane	ND		ug/kg	160	28.	1
1,4-Diethylbenzene	ND		ug/kg	6.4	0.25	1
4-Ethyltoluene	ND		ug/kg	6.4	0.19	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-26

Date Collected: 04/19/13 10:20

Client ID: SB-24\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.4	0.21	1
Ethyl ether	ND		ug/kg	8.0	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.0	0.71	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-27  
**Client ID:** SB-23\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 10:11  
**Analyst:** BN  
**Percent Solids:** 82%

**Date Collected:** 04/19/13 10:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	1.3	J	ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.52	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.8	0.90	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.28	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-27

Date Collected: 04/19/13 10:40

Client ID: SB-23\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.25	1
Acetone	ND		ug/kg	12	3.6	1
Carbon disulfide	ND		ug/kg	12	2.3	1
2-Butanone	ND		ug/kg	12	0.41	1
Vinyl acetate	ND		ug/kg	12	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.8	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.8	0.64	1
o-Chlorotoluene	ND		ug/kg	5.8	0.18	1
p-Chlorotoluene	ND		ug/kg	5.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.91	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	ND		ug/kg	5.8	0.89	1
Acrylonitrile	ND		ug/kg	12	0.27	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.91	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.66	1
1,4-Dioxane	ND		ug/kg	120	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-27

Date Collected: 04/19/13 10:40

Client ID: SB-23\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-28  
**Client ID:** SB-23\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 11:35  
**Analyst:** BN  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 10:55  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.4	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.17	1
Chloroform	1.0	J	ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.94	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.22	1
Dibromochloromethane	ND		ug/kg	0.94	0.29	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.94	0.13	1
Chlorobenzene	ND		ug/kg	0.94	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.11	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	0.94	0.10	1
Bromodichloromethane	ND		ug/kg	0.94	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.94	0.12	1
1,1-Dichloropropene	ND		ug/kg	4.7	0.43	1
Bromoform	ND		ug/kg	3.8	0.39	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.94	0.16	1
Benzene	ND		ug/kg	0.94	0.11	1
Toluene	ND		ug/kg	1.4	0.10	1
Ethylbenzene	ND		ug/kg	0.94	0.14	1
Chloromethane	ND		ug/kg	4.7	0.74	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.13	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Trichloroethene	ND		ug/kg	0.94	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	0.23	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-28

Date Collected: 04/19/13 10:55

Client ID: SB-23\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.9	0.10	1
p/m-Xylene	ND		ug/kg	1.9	0.30	1
o-Xylene	ND		ug/kg	1.9	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.14	1
Dibromomethane	ND		ug/kg	9.4	0.15	1
Styrene	ND		ug/kg	1.9	0.29	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.21	1
Acetone	ND		ug/kg	9.4	2.9	1
Carbon disulfide	ND		ug/kg	9.4	1.9	1
2-Butanone	ND		ug/kg	9.4	0.34	1
Vinyl acetate	ND		ug/kg	9.4	0.45	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.4	0.21	1
2-Hexanone	ND		ug/kg	9.4	0.18	1
Bromochloromethane	ND		ug/kg	4.7	0.19	1
2,2-Dichloropropane	ND		ug/kg	4.7	0.21	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.7	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.94	0.30	1
Bromobenzene	ND		ug/kg	4.7	0.20	1
n-Butylbenzene	ND		ug/kg	0.94	0.19	1
sec-Butylbenzene	ND		ug/kg	0.94	0.19	1
tert-Butylbenzene	ND		ug/kg	4.7	0.53	1
o-Chlorotoluene	ND		ug/kg	4.7	0.15	1
p-Chlorotoluene	ND		ug/kg	4.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	0.74	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.40	1
Isopropylbenzene	ND		ug/kg	0.94	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.18	1
Naphthalene	ND		ug/kg	4.7	0.73	1
Acrylonitrile	ND		ug/kg	9.4	0.22	1
n-Propylbenzene	ND		ug/kg	0.94	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	0.74	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.7	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.7	0.54	1
1,4-Dioxane	ND		ug/kg	94	16.	1
1,4-Diethylbenzene	ND		ug/kg	3.8	0.15	1
4-Ethyltoluene	ND		ug/kg	3.8	0.11	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-28

Date Collected: 04/19/13 10:55

Client ID: SB-23\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.8	0.12	1
Ethyl ether	ND		ug/kg	4.7	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-29  
**Client ID:** SB-17\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 12:03  
**Analyst:** BN  
**Percent Solids:** 93%

**Date Collected:** 04/19/13 11:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.18	1
Chloroform	ND		ug/kg	1.5	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.21	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.31	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	1.0	0.14	1
Chlorobenzene	ND		ug/kg	1.0	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.12	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11	1
Bromodichloromethane	ND		ug/kg	1.0	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.1	0.46	1
Bromoform	ND		ug/kg	4.0	0.42	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17	1
Benzene	ND		ug/kg	1.0	0.12	1
Toluene	ND		ug/kg	1.5	0.11	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	5.1	0.79	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.14	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21	1
Trichloroethene	ND		ug/kg	1.0	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	5.1	0.24	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-29  
 Client ID: SB-17\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 11:10  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.10	1
p/m-Xylene	ND		ug/kg	2.0	0.33	1
o-Xylene	ND		ug/kg	2.0	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15	1
Dibromomethane	ND		ug/kg	10	0.16	1
Styrene	ND		ug/kg	2.0	0.31	1
Dichlorodifluoromethane	ND		ug/kg	10	0.22	1
Acetone	5.3	J	ug/kg	10	3.1	1
Carbon disulfide	ND		ug/kg	10	2.0	1
2-Butanone	ND		ug/kg	10	0.36	1
Vinyl acetate	ND		ug/kg	10	0.48	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.23	1
2-Hexanone	ND		ug/kg	10	0.19	1
Bromochloromethane	ND		ug/kg	5.1	0.20	1
2,2-Dichloropropane	ND		ug/kg	5.1	0.23	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.18	1
1,3-Dichloropropane	ND		ug/kg	5.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32	1
Bromobenzene	ND		ug/kg	5.1	0.21	1
n-Butylbenzene	ND		ug/kg	1.0	0.20	1
sec-Butylbenzene	ND		ug/kg	1.0	0.21	1
tert-Butylbenzene	ND		ug/kg	5.1	0.57	1
o-Chlorotoluene	ND		ug/kg	5.1	0.16	1
p-Chlorotoluene	ND		ug/kg	5.1	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	0.80	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.43	1
Isopropylbenzene	ND		ug/kg	1.0	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.19	1
Naphthalene	1.2	J	ug/kg	5.1	0.78	1
Acrylonitrile	ND		ug/kg	10	0.24	1
n-Propylbenzene	ND		ug/kg	1.0	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	0.80	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.1	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.1	0.58	1
1,4-Dioxane	ND		ug/kg	100	18.	1
1,4-Diethylbenzene	0.33	J	ug/kg	4.0	0.16	1
4-Ethyltoluene	ND		ug/kg	4.0	0.12	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-29

Date Collected: 04/19/13 11:10

Client ID: SB-17\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	0.23	J	ug/kg	4.0	0.13	1
Ethyl ether	ND		ug/kg	5.1	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	86		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-30  
**Client ID:** SB-17\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 12:39  
**Analyst:** BN  
**Percent Solids:** 82%

**Date Collected:** 04/19/13 11:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.23	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.27	1
1,2-Dichloropropane	ND		ug/kg	4.5	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.39	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	ND		ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.19	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.58	1
Bromoform	ND		ug/kg	5.1	0.53	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.22	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	ND		ug/kg	1.9	0.14	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	6.4	1.0	1
Bromomethane	ND		ug/kg	2.6	0.43	1
Vinyl chloride	ND		ug/kg	2.6	0.18	1
Chloroethane	ND		ug/kg	2.6	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.27	1
Trichloroethene	ND		ug/kg	1.3	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.31	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-30  
 Client ID: SB-17\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 11:20  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.6	0.13	1
p/m-Xylene	ND		ug/kg	2.6	0.41	1
o-Xylene	ND		ug/kg	2.6	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.19	1
Dibromomethane	ND		ug/kg	13	0.21	1
Styrene	ND		ug/kg	2.6	0.39	1
Dichlorodifluoromethane	ND		ug/kg	13	0.28	1
Acetone	ND		ug/kg	13	4.0	1
Carbon disulfide	ND		ug/kg	13	2.6	1
2-Butanone	ND		ug/kg	13	0.45	1
Vinyl acetate	ND		ug/kg	13	0.61	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.29	1
2-Hexanone	ND		ug/kg	13	0.24	1
Bromochloromethane	ND		ug/kg	6.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.29	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.23	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.41	1
Bromobenzene	ND		ug/kg	6.4	0.27	1
n-Butylbenzene	ND		ug/kg	1.3	0.25	1
sec-Butylbenzene	ND		ug/kg	1.3	0.26	1
tert-Butylbenzene	ND		ug/kg	6.4	0.72	1
o-Chlorotoluene	ND		ug/kg	6.4	0.20	1
p-Chlorotoluene	ND		ug/kg	6.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	1.0	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.54	1
Isopropylbenzene	ND		ug/kg	1.3	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.24	1
Naphthalene	ND		ug/kg	6.4	0.98	1
Acrylonitrile	ND		ug/kg	13	0.30	1
n-Propylbenzene	ND		ug/kg	1.3	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	1.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.73	1
1,4-Dioxane	ND		ug/kg	130	22.	1
1,4-Diethylbenzene	ND		ug/kg	5.1	0.20	1
4-Ethyltoluene	ND		ug/kg	5.1	0.15	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-30

Date Collected: 04/19/13 11:20

Client ID: SB-17\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.17	1
Ethyl ether	ND		ug/kg	6.4	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-31  
**Client ID:** SB-11\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 15:55  
**Analyst:** BN  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 11:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	860	170	1
1,1-Dichloroethane	ND		ug/kg	130	15.	1
Chloroform	ND		ug/kg	130	32.	1
Carbon tetrachloride	ND		ug/kg	86	18.	1
1,2-Dichloropropane	ND		ug/kg	300	20.	1
Dibromochloromethane	ND		ug/kg	86	26.	1
1,1,2-Trichloroethane	ND		ug/kg	130	26.	1
Tetrachloroethene	700		ug/kg	86	12.	1
Chlorobenzene	ND		ug/kg	86	30.	1
Trichlorofluoromethane	ND		ug/kg	430	10.	1
1,2-Dichloroethane	ND		ug/kg	86	12.	1
1,1,1-Trichloroethane	520		ug/kg	86	9.5	1
Bromodichloromethane	ND		ug/kg	86	20.	1
trans-1,3-Dichloropropene	ND		ug/kg	86	10.	1
cis-1,3-Dichloropropene	ND		ug/kg	86	11.	1
1,1-Dichloropropene	ND		ug/kg	430	39.	1
Bromoform	ND		ug/kg	340	35.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	86	14.	1
Benzene	ND		ug/kg	86	10.	1
Toluene	590		ug/kg	130	9.6	1
Ethylbenzene	440		ug/kg	86	13.	1
Chloromethane	ND		ug/kg	430	67.	1
Bromomethane	ND		ug/kg	170	29.	1
Vinyl chloride	ND		ug/kg	170	12.	1
Chloroethane	ND		ug/kg	170	27.	1
1,1-Dichloroethene	ND		ug/kg	86	18.	1
trans-1,2-Dichloroethene	ND		ug/kg	130	18.	1
Trichloroethene	190		ug/kg	86	13.	1
1,2-Dichlorobenzene	ND		ug/kg	430	16.	1
1,3-Dichlorobenzene	ND		ug/kg	430	16.	1
1,4-Dichlorobenzene	ND		ug/kg	430	21.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-31

Date Collected: 04/19/13 11:40

Client ID: SB-11\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	170	8.9	1
p/m-Xylene	1300		ug/kg	170	28.	1
o-Xylene	700		ug/kg	170	23.	1
cis-1,2-Dichloroethene	240		ug/kg	86	13.	1
Dibromomethane	ND		ug/kg	860	14.	1
Styrene	250		ug/kg	170	26.	1
Dichlorodifluoromethane	ND		ug/kg	860	19.	1
Acetone	310	J	ug/kg	860	260	1
Carbon disulfide	ND		ug/kg	860	170	1
2-Butanone	ND		ug/kg	860	30.	1
Vinyl acetate	ND		ug/kg	860	41.	1
4-Methyl-2-pentanone	ND		ug/kg	860	21.	1
1,2,3-Trichloropropane	ND		ug/kg	860	19.	1
2-Hexanone	ND		ug/kg	860	16.	1
Bromochloromethane	ND		ug/kg	430	17.	1
2,2-Dichloropropane	ND		ug/kg	430	19.	1
1,2-Dibromoethane	ND		ug/kg	340	15.	1
1,3-Dichloropropane	ND		ug/kg	430	15.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	86	27.	1
Bromobenzene	ND		ug/kg	430	18.	1
n-Butylbenzene	160		ug/kg	86	17.	1
sec-Butylbenzene	140		ug/kg	86	18.	1
tert-Butylbenzene	ND		ug/kg	430	48.	1
o-Chlorotoluene	ND		ug/kg	430	14.	1
p-Chlorotoluene	ND		ug/kg	430	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	430	68.	1
Hexachlorobutadiene	ND		ug/kg	430	36.	1
Isopropylbenzene	110		ug/kg	86	14.	1
p-Isopropyltoluene	370		ug/kg	86	16.	1
Naphthalene	3600		ug/kg	430	66.	1
Acrylonitrile	ND		ug/kg	860	20.	1
n-Propylbenzene	210		ug/kg	86	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	430	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	430	68.	1
1,3,5-Trimethylbenzene	540		ug/kg	430	12.	1
1,2,4-Trimethylbenzene	1500		ug/kg	430	49.	1
1,4-Dioxane	ND		ug/kg	8600	1500	1
1,4-Diethylbenzene	1100		ug/kg	340	14.	1
4-Ethyltoluene	920		ug/kg	340	10.	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-31

Date Collected: 04/19/13 11:40

Client ID: SB-11\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	440		ug/kg	340	11.	1
Ethyl ether	ND		ug/kg	430	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	430	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-32  
**Client ID:** SB-11\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 13:07  
**Analyst:** BN  
**Percent Solids:** 91%

**Date Collected:** 04/19/13 11:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.21	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.37	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.54	1
Bromoform	ND		ug/kg	4.8	0.49	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	6.0	0.93	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.17	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.29	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-32  
 Client ID: SB-11\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 11:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.12	1
p/m-Xylene	ND		ug/kg	2.4	0.38	1
o-Xylene	ND		ug/kg	2.4	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.4	0.37	1
Dichlorodifluoromethane	ND		ug/kg	12	0.26	1
Acetone	ND		ug/kg	12	3.7	1
Carbon disulfide	ND		ug/kg	12	2.4	1
2-Butanone	ND		ug/kg	12	0.42	1
Vinyl acetate	ND		ug/kg	12	0.57	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.27	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	6.0	0.23	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.24	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	6.0	0.67	1
o-Chlorotoluene	ND		ug/kg	6.0	0.19	1
p-Chlorotoluene	ND		ug/kg	6.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.94	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.50	1
Isopropylbenzene	ND		ug/kg	1.2	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.23	1
Naphthalene	ND		ug/kg	6.0	0.92	1
Acrylonitrile	ND		ug/kg	12	0.28	1
n-Propylbenzene	ND		ug/kg	1.2	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.94	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.68	1
1,4-Dioxane	ND		ug/kg	120	21.	1
1,4-Diethylbenzene	ND		ug/kg	4.8	0.19	1
4-Ethyltoluene	ND		ug/kg	4.8	0.14	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-32

Date Collected: 04/19/13 11:50

Client ID: SB-11\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.16	1
Ethyl ether	ND		ug/kg	6.0	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-33  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 16:23  
**Analyst:** BN  
**Percent Solids:** 79%

**Date Collected:** 04/19/13 12:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1100	220	1
1,1-Dichloroethane	ND		ug/kg	170	20.	1
Chloroform	ND		ug/kg	170	42.	1
Carbon tetrachloride	ND		ug/kg	110	24.	1
1,2-Dichloropropane	ND		ug/kg	390	26.	1
Dibromochloromethane	ND		ug/kg	110	34.	1
1,1,2-Trichloroethane	ND		ug/kg	170	34.	1
Tetrachloroethene	ND		ug/kg	110	16.	1
Chlorobenzene	ND		ug/kg	110	39.	1
Trichlorofluoromethane	ND		ug/kg	560	14.	1
1,2-Dichloroethane	ND		ug/kg	110	16.	1
1,1,1-Trichloroethane	ND		ug/kg	110	12.	1
Bromodichloromethane	ND		ug/kg	110	26.	1
trans-1,3-Dichloropropene	ND		ug/kg	110	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	110	14.	1
1,1-Dichloropropene	ND		ug/kg	560	51.	1
Bromoform	ND		ug/kg	450	46.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	110	19.	1
Benzene	ND		ug/kg	110	13.	1
Toluene	ND		ug/kg	170	12.	1
Ethylbenzene	ND		ug/kg	110	16.	1
Chloromethane	ND		ug/kg	560	88.	1
Bromomethane	ND		ug/kg	220	38.	1
Vinyl chloride	ND		ug/kg	220	16.	1
Chloroethane	ND		ug/kg	220	35.	1
1,1-Dichloroethene	ND		ug/kg	110	23.	1
trans-1,2-Dichloroethene	ND		ug/kg	170	24.	1
Trichloroethene	ND		ug/kg	110	17.	1
1,2-Dichlorobenzene	ND		ug/kg	560	20.	1
1,3-Dichlorobenzene	ND		ug/kg	560	20.	1
1,4-Dichlorobenzene	ND		ug/kg	560	27.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-33  
 Client ID: SB-7\_0-2  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 12:10  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	220	12.	1
p/m-Xylene	ND		ug/kg	220	36.	1
o-Xylene	ND		ug/kg	220	30.	1
cis-1,2-Dichloroethene	ND		ug/kg	110	17.	1
Dibromomethane	ND		ug/kg	1100	18.	1
Styrene	ND		ug/kg	220	35.	1
Dichlorodifluoromethane	ND		ug/kg	1100	24.	1
Acetone	ND		ug/kg	1100	350	1
Carbon disulfide	ND		ug/kg	1100	220	1
2-Butanone	ND		ug/kg	1100	40.	1
Vinyl acetate	ND		ug/kg	1100	54.	1
4-Methyl-2-pentanone	ND		ug/kg	1100	27.	1
1,2,3-Trichloropropane	ND		ug/kg	1100	25.	1
2-Hexanone	ND		ug/kg	1100	21.	1
Bromochloromethane	ND		ug/kg	560	22.	1
2,2-Dichloropropane	ND		ug/kg	560	25.	1
1,2-Dibromoethane	ND		ug/kg	450	20.	1
1,3-Dichloropropane	ND		ug/kg	560	19.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	110	36.	1
Bromobenzene	ND		ug/kg	560	23.	1
n-Butylbenzene	ND		ug/kg	110	22.	1
sec-Butylbenzene	ND		ug/kg	110	23.	1
tert-Butylbenzene	ND		ug/kg	560	63.	1
o-Chlorotoluene	ND		ug/kg	560	18.	1
p-Chlorotoluene	ND		ug/kg	560	17.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	560	89.	1
Hexachlorobutadiene	ND		ug/kg	560	47.	1
Isopropylbenzene	ND		ug/kg	110	19.	1
p-Isopropyltoluene	ND		ug/kg	110	21.	1
Naphthalene	190	J	ug/kg	560	86.	1
Acrylonitrile	ND		ug/kg	1100	27.	1
n-Propylbenzene	ND		ug/kg	110	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	560	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	560	89.	1
1,3,5-Trimethylbenzene	ND		ug/kg	560	16.	1
1,2,4-Trimethylbenzene	ND		ug/kg	560	64.	1
1,4-Dioxane	ND		ug/kg	11000	2000	1
1,4-Diethylbenzene	ND		ug/kg	450	18.	1
4-Ethyltoluene	35	J	ug/kg	450	13.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-33

Date Collected: 04/19/13 12:10

Client ID: SB-7\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	450	15.	1
Ethyl ether	ND		ug/kg	560	30.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	560	50.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-34  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 13:35  
**Analyst:** BN  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 12:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	3.0	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.26	1
Chloroform	ND		ug/kg	2.2	0.55	1
Carbon tetrachloride	ND		ug/kg	1.5	0.31	1
1,2-Dichloropropane	ND		ug/kg	5.2	0.34	1
Dibromochloromethane	ND		ug/kg	1.5	0.46	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.46	1
Tetrachloroethene	ND		ug/kg	1.5	0.21	1
Chlorobenzene	ND		ug/kg	1.5	0.52	1
Trichlorofluoromethane	ND		ug/kg	7.5	0.18	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.16	1
Bromodichloromethane	ND		ug/kg	1.5	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.19	1
1,1-Dichloropropene	ND		ug/kg	7.5	0.68	1
Bromoform	ND		ug/kg	6.0	0.62	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.26	1
Benzene	ND		ug/kg	1.5	0.18	1
Toluene	ND		ug/kg	2.2	0.17	1
Ethylbenzene	ND		ug/kg	1.5	0.22	1
Chloromethane	ND		ug/kg	7.5	1.2	1
Bromomethane	ND		ug/kg	3.0	0.50	1
Vinyl chloride	ND		ug/kg	3.0	0.21	1
Chloroethane	ND		ug/kg	3.0	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.32	1
Trichloroethene	ND		ug/kg	1.5	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	7.5	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	7.5	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	7.5	0.36	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-34  
 Client ID: SB-7\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 12:20  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.0	0.16	1
p/m-Xylene	ND		ug/kg	3.0	0.48	1
o-Xylene	ND		ug/kg	3.0	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.22	1
Dibromomethane	ND		ug/kg	15	0.24	1
Styrene	ND		ug/kg	3.0	0.46	1
Dichlorodifluoromethane	ND		ug/kg	15	0.33	1
Acetone	ND		ug/kg	15	4.6	1
Carbon disulfide	ND		ug/kg	15	3.0	1
2-Butanone	ND		ug/kg	15	0.53	1
Vinyl acetate	ND		ug/kg	15	0.72	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.36	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.34	1
2-Hexanone	ND		ug/kg	15	0.28	1
Bromochloromethane	ND		ug/kg	7.5	0.29	1
2,2-Dichloropropane	ND		ug/kg	7.5	0.34	1
1,2-Dibromoethane	ND		ug/kg	6.0	0.27	1
1,3-Dichloropropane	ND		ug/kg	7.5	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.48	1
Bromobenzene	ND		ug/kg	7.5	0.31	1
n-Butylbenzene	ND		ug/kg	1.5	0.30	1
sec-Butylbenzene	ND		ug/kg	1.5	0.31	1
tert-Butylbenzene	ND		ug/kg	7.5	0.84	1
o-Chlorotoluene	ND		ug/kg	7.5	0.24	1
p-Chlorotoluene	ND		ug/kg	7.5	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	7.5	0.63	1
Isopropylbenzene	ND		ug/kg	1.5	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.29	1
Naphthalene	ND		ug/kg	7.5	1.2	1
Acrylonitrile	ND		ug/kg	15	0.36	1
n-Propylbenzene	ND		ug/kg	1.5	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.5	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.5	1.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.5	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.5	0.86	1
1,4-Dioxane	ND		ug/kg	150	26.	1
1,4-Diethylbenzene	ND		ug/kg	6.0	0.24	1
4-Ethyltoluene	ND		ug/kg	6.0	0.18	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-34  
 Client ID: SB-7\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 12:20  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.0	0.19	1
Ethyl ether	ND		ug/kg	7.5	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.5	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-35  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/26/13 16:02  
**Analyst:** PD

**Date Collected:** 04/19/13 00:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-35  
 Client ID: FIELD BLANK  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 00:00  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-35  
 Client ID: FIELD BLANK  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 00:00  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-36  
**Client ID:** TRIP BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/26/13 16:27  
**Analyst:** PD

**Date Collected:** 04/19/13 00:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-36  
 Client ID: TRIP BLANK  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 00:00  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.7	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	3.0	J	ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-36  
 Client ID: TRIP BLANK  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 00:00  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-37  
**Client ID:** SB-26\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 16:51  
**Analyst:** BN  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 17:25  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	760	150	1
1,1-Dichloroethane	ND		ug/kg	110	13.	1
Chloroform	ND		ug/kg	110	28.	1
Carbon tetrachloride	ND		ug/kg	76	16.	1
1,2-Dichloropropane	ND		ug/kg	260	17.	1
Dibromochloromethane	ND		ug/kg	76	23.	1
1,1,2-Trichloroethane	ND		ug/kg	110	23.	1
Tetrachloroethene	ND		ug/kg	76	11.	1
Chlorobenzene	ND		ug/kg	76	26.	1
Trichlorofluoromethane	ND		ug/kg	380	9.2	1
1,2-Dichloroethane	ND		ug/kg	76	11.	1
1,1,1-Trichloroethane	ND		ug/kg	76	8.4	1
Bromodichloromethane	ND		ug/kg	76	17.	1
trans-1,3-Dichloropropene	ND		ug/kg	76	9.1	1
cis-1,3-Dichloropropene	ND		ug/kg	76	9.6	1
1,1-Dichloropropene	ND		ug/kg	380	34.	1
Bromoform	ND		ug/kg	300	31.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	76	13.	1
Benzene	46	J	ug/kg	76	8.9	1
Toluene	310		ug/kg	110	8.5	1
Ethylbenzene	310		ug/kg	76	11.	1
Chloromethane	ND		ug/kg	380	59.	1
Bromomethane	ND		ug/kg	150	26.	1
Vinyl chloride	ND		ug/kg	150	11.	1
Chloroethane	ND		ug/kg	150	24.	1
1,1-Dichloroethene	ND		ug/kg	76	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	16.	1
Trichloroethene	ND		ug/kg	76	12.	1
1,2-Dichlorobenzene	ND		ug/kg	380	14.	1
1,3-Dichlorobenzene	ND		ug/kg	380	14.	1
1,4-Dichlorobenzene	ND		ug/kg	380	18.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-37  
 Client ID: SB-26\_0-2  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 17:25  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	150	7.9	1
p/m-Xylene	1000		ug/kg	150	24.	1
o-Xylene	620		ug/kg	150	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	76	11.	1
Dibromomethane	ND		ug/kg	760	12.	1
Styrene	180		ug/kg	150	23.	1
Dichlorodifluoromethane	ND		ug/kg	760	16.	1
Acetone	480	J	ug/kg	760	230	1
Carbon disulfide	ND		ug/kg	760	150	1
2-Butanone	130	J	ug/kg	760	27.	1
Vinyl acetate	ND		ug/kg	760	36.	1
4-Methyl-2-pentanone	ND		ug/kg	760	18.	1
1,2,3-Trichloropropane	ND		ug/kg	760	17.	1
2-Hexanone	ND		ug/kg	760	14.	1
Bromochloromethane	ND		ug/kg	380	15.	1
2,2-Dichloropropane	ND		ug/kg	380	17.	1
1,2-Dibromoethane	ND		ug/kg	300	13.	1
1,3-Dichloropropane	ND		ug/kg	380	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	76	24.	1
Bromobenzene	ND		ug/kg	380	16.	1
n-Butylbenzene	ND		ug/kg	76	15.	1
sec-Butylbenzene	ND		ug/kg	76	16.	1
tert-Butylbenzene	ND		ug/kg	380	42.	1
o-Chlorotoluene	ND		ug/kg	380	12.	1
p-Chlorotoluene	ND		ug/kg	380	12.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	380	60.	1
Hexachlorobutadiene	ND		ug/kg	380	32.	1
Isopropylbenzene	73	J	ug/kg	76	13.	1
p-Isopropyltoluene	50	J	ug/kg	76	14.	1
Naphthalene	820		ug/kg	380	58.	1
Acrylonitrile	ND		ug/kg	760	18.	1
n-Propylbenzene	57	J	ug/kg	76	9.5	1
1,2,3-Trichlorobenzene	ND		ug/kg	380	13.	1
1,2,4-Trichlorobenzene	ND		ug/kg	380	60.	1
1,3,5-Trimethylbenzene	190	J	ug/kg	380	11.	1
1,2,4-Trimethylbenzene	340	J	ug/kg	380	43.	1
1,4-Dioxane	ND		ug/kg	7600	1300	1
1,4-Diethylbenzene	480		ug/kg	300	12.	1
4-Ethyltoluene	250	J	ug/kg	300	8.8	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-37

Date Collected: 04/18/13 17:25

Client ID: SB-26\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	170	J	ug/kg	300	9.8	1
Ethyl ether	ND		ug/kg	380	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	380	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-38  
**Client ID:** SB-26\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/23/13 14:03  
**Analyst:** BN  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 17:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.19	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.33	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.49	1
Bromoform	ND		ug/kg	4.3	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.18	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.4	0.84	1
Bromomethane	ND		ug/kg	2.2	0.36	1
Vinyl chloride	ND		ug/kg	2.2	0.15	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.26	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-38  
 Client ID: SB-26\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 17:35  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.11	1
p/m-Xylene	ND		ug/kg	2.2	0.35	1
o-Xylene	ND		ug/kg	2.2	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.33	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	ND		ug/kg	11	3.3	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.38	1
Vinyl acetate	ND		ug/kg	11	0.52	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.24	1
2-Hexanone	ND		ug/kg	11	0.20	1
Bromochloromethane	ND		ug/kg	5.4	0.21	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.21	1
sec-Butylbenzene	ND		ug/kg	1.1	0.22	1
tert-Butylbenzene	ND		ug/kg	5.4	0.60	1
o-Chlorotoluene	ND		ug/kg	5.4	0.17	1
p-Chlorotoluene	ND		ug/kg	5.4	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.85	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.46	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.4	0.83	1
Acrylonitrile	ND		ug/kg	11	0.26	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.85	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.62	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.3	0.17	1
4-Ethyltoluene	ND		ug/kg	4.3	0.13	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-38  
 Client ID: SB-26\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 17:35  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.4	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/21/13 09:24  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06,08-15 Batch: WG602979-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/21/13 09:24  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06,08-15 Batch: WG602979-3					
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/21/13 09:24  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06,08-15 Batch: WG602979-3					
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/21/13 09:24

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06,08-15 Batch: WG602979-3					

#### Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/22/13 08:25  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,07 Batch: WG603275-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/22/13 08:25

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,07 Batch: WG603275-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/22/13 08:25  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,07 Batch: WG603275-3					
Acrylonitrile	ND		ug/kg	10	0.24
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

#### Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/22/13 08:25

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05,07 Batch: WG603275-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/22/13 08:25  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 16 Batch: WG603276-3					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/22/13 08:25  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 16 Batch: WG603276-3					
1,4-Dichlorobenzene	ND		ug/kg	250	12.
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/22/13 08:25  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 16 Batch: WG603276-3					
Acrylonitrile	ND		ug/kg	500	12.
Isopropyl Ether	ND		ug/kg	200	7.0
tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
Methyl Acetate	ND		ug/kg	1000	38.
Ethyl Acetate	ND		ug/kg	1000	41.
Acrolein	ND		ug/kg	1200	460
Cyclohexane	ND		ug/kg	1000	54.
1,4-Dioxane	ND		ug/kg	5000	870
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	14.
1,4-Diethylbenzene	ND		ug/kg	200	8.0
4-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	19.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.
Methyl cyclohexane	ND		ug/kg	200	63.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	21.
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	29.

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/22/13 08:25

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 16 Batch: WG603276-3					
--	--	--	--	--	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/23/13 09:15  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 16 Batch: WG603276-6					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/23/13 09:15  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 16 Batch: WG603276-6					
1,4-Dichlorobenzene	ND		ug/kg	250	12.
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/23/13 09:15  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 16 Batch: WG603276-6					
Acrylonitrile	ND		ug/kg	500	12.
Isopropyl Ether	ND		ug/kg	200	7.0
tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
Methyl Acetate	ND		ug/kg	1000	38.
Ethyl Acetate	ND		ug/kg	1000	41.
Acrolein	ND		ug/kg	1200	460
Cyclohexane	ND		ug/kg	1000	54.
1,4-Dioxane	ND		ug/kg	5000	870
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	14.
1,4-Diethylbenzene	ND		ug/kg	200	8.0
4-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	19.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.
Methyl cyclohexane	ND		ug/kg	200	63.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	21.
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	29.

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/23/13 09:15

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 16 Batch: WG603276-6					
--	--	--	--	--	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/23/13 09:15  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 17-21,23-26 Batch: WG603479-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/23/13 09:15  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 17-21,23-26 Batch: WG603479-3					
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/23/13 09:15  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 17-21,23-26 Batch: WG603479-3					
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/23/13 09:15

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 17-21,23-26 Batch: WG603479-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/23/13 09:15  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 27-30,32,34,38 Batch: WG603522-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/23/13 09:15  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 27-30,32,34,38 Batch: WG603522-3					
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/23/13 09:15  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 27-30,32,34,38 Batch: WG603522-3					
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/23/13 09:15

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 27-30,32,34,38 Batch: WG603522-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/23/13 09:15

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22,31,33,37 Batch: WG603524-3					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/23/13 09:15

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22,31,33,37 Batch: WG603524-3					
1,4-Dichlorobenzene	ND		ug/kg	250	12.
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/23/13 09:15

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22,31,33,37 Batch: WG603524-3					
Acrylonitrile	ND		ug/kg	500	12.
Isopropyl Ether	ND		ug/kg	200	7.0
tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
Methyl Acetate	ND		ug/kg	1000	38.
Ethyl Acetate	ND		ug/kg	1000	41.
Acrolein	ND		ug/kg	1200	460
Cyclohexane	ND		ug/kg	1000	54.
1,4-Dioxane	ND		ug/kg	5000	870
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	14.
1,4-Diethylbenzene	ND		ug/kg	200	8.0
4-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	19.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.
Methyl cyclohexane	ND		ug/kg	200	63.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	21.
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	29.

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/23/13 09:15

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22,31,33,37 Batch: WG603524-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/24/13 08:56

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22 Batch: WG603524-6					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	10	J	ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/24/13 08:56  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22 Batch: WG603524-6					
1,4-Dichlorobenzene	ND		ug/kg	250	12.
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/24/13 08:56  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22 Batch: WG603524-6					
Acrylonitrile	ND		ug/kg	500	12.
Isopropyl Ether	ND		ug/kg	200	7.0
tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
Methyl Acetate	ND		ug/kg	1000	38.
Ethyl Acetate	ND		ug/kg	1000	41.
Acrolein	ND		ug/kg	1200	460
Cyclohexane	ND		ug/kg	1000	54.
1,4-Dioxane	ND		ug/kg	5000	870
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	14.
1,4-Diethylbenzene	ND		ug/kg	200	8.0
4-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	19.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.
Methyl cyclohexane	ND		ug/kg	200	63.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	21.
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	29.

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 04/24/13 08:56

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
-----------	--------	-----------	-------	----	-----

Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22 Batch: WG603524-6					
--	--	--	--	--	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/26/13 10:09  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 35-36 Batch: WG604351-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/26/13 10:09  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 35-36 Batch: WG604351-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70





Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/26/13 10:09  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 35-36 Batch: WG604351-3					
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	76.
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

#### Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06,08-15 Batch: WG602979-1 WG602979-2								
Methylene chloride	80		84		70-130	5		30
1,1-Dichloroethane	85		90		70-130	6		30
Chloroform	84		88		70-130	5		30
Carbon tetrachloride	82		88		70-130	7		30
1,2-Dichloropropane	86		88		70-130	2		30
Dibromochloromethane	105		109		70-130	4		30
2-Chloroethylvinyl ether	86		88			2		30
1,1,2-Trichloroethane	106		110		70-130	4		30
Tetrachloroethene	104		112		70-130	7		30
Chlorobenzene	105		110		70-130	5		30
Trichlorofluoromethane	80		90		70-139	12		30
1,2-Dichloroethane	85		88		70-130	3		30
1,1,1-Trichloroethane	82		88		70-130	7		30
Bromodichloromethane	84		87		70-130	4		30
trans-1,3-Dichloropropene	108		112		70-130	4		30
cis-1,3-Dichloropropene	87		90		70-130	3		30
1,1-Dichloropropene	82		89		70-130	8		30
Bromoform	115		117		70-130	2		30
1,1,2,2-Tetrachloroethane	116		119		70-130	3		30
Benzene	84		88		70-130	5		30
Toluene	100		106		70-130	6		30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06,08-15 Batch: WG602979-1 WG602979-2								
Ethylbenzene	105		111		70-130	6		30
Chloromethane	83		87		52-130	5		30
Bromomethane	85		92		57-147	8		30
Vinyl chloride	78		86		67-130	10		30
Chloroethane	83		88		50-151	6		30
1,1-Dichloroethene	82		90		65-135	9		30
trans-1,2-Dichloroethene	83		89		70-130	7		30
Trichloroethene	80		85		70-130	6		30
1,2-Dichlorobenzene	116		120		70-130	3		30
1,3-Dichlorobenzene	118		121		70-130	3		30
1,4-Dichlorobenzene	117		121		70-130	3		30
Methyl tert butyl ether	83		86		66-130	4		30
p/m-Xylene	106		112		70-130	6		30
o-Xylene	107		112		70-130	5		30
cis-1,2-Dichloroethene	85		89		70-130	5		30
Dibromomethane	84		86		70-130	2		30
Styrene	109		113		70-130	4		30
Dichlorodifluoromethane	84		94		30-146	11		30
Acetone	73		96		54-140	27		30
Carbon disulfide	79		86		59-130	8		30
2-Butanone	95		108		70-130	13		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06,08-15 Batch: WG602979-1 WG602979-2								
Vinyl acetate	87		90		70-130	3		30
4-Methyl-2-pentanone	84		89		70-130	6		30
1,2,3-Trichloropropane	115		123		68-130	7		30
2-Hexanone	106		114		70-130	7		30
Bromochloromethane	86		89		70-130	3		30
2,2-Dichloropropane	81		88		70-130	8		30
1,2-Dibromoethane	105		107		70-130	2		30
1,3-Dichloropropane	106		109		69-130	3		30
1,1,1,2-Tetrachloroethane	104		107		70-130	3		30
Bromobenzene	116		120		70-130	3		30
n-Butylbenzene	116		124		70-130	7		30
sec-Butylbenzene	115		122		70-130	6		30
tert-Butylbenzene	114		121		70-130	6		30
o-Chlorotoluene	118		121		70-130	3		30
p-Chlorotoluene	116		122		70-130	5		30
1,2-Dibromo-3-chloropropane	108		110		68-130	2		30
Hexachlorobutadiene	115		121		67-130	5		30
Isopropylbenzene	115		122		70-130	6		30
p-Isopropyltoluene	117		123		70-130	5		30
Naphthalene	118		121		70-130	3		30
Acrylonitrile	82		87		70-130	6		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06,08-15 Batch: WG602979-1 WG602979-2								
Isopropyl Ether	86		89		66-130	3		30
tert-Butyl Alcohol	86		90		70-130	5		30
n-Propylbenzene	115		122		70-130	6		30
1,2,3-Trichlorobenzene	119		121		70-130	2		30
1,2,4-Trichlorobenzene	118		121		70-130	3		30
1,3,5-Trimethylbenzene	117		123		70-130	5		30
1,2,4-Trimethylbenzene	117		123		70-130	5		30
Methyl Acetate	87		90		51-146	3		30
Ethyl Acetate	85		89		70-130	5		30
Acrolein	62	Q	65	Q	70-130	5		30
Cyclohexane	82		92		59-142	11		30
1,4-Dioxane	88		90		65-136	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	81		89		50-139	9		30
1,4-Diethylbenzene	115		122		70-130	6		30
4-Ethyltoluene	114		121		70-130	6		30
1,2,4,5-Tetramethylbenzene	118		122		70-130	3		30
Tetrahydrofuran	80		84		66-130	5		30
Ethyl ether	82		85		67-130	4		30
trans-1,4-Dichloro-2-butene	115		118		70-130	3		30
Methyl cyclohexane	81		90		70-130	11		30
Ethyl-Tert-Butyl-Ether	87		88		70-130	1		30

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06,08-15 Batch: WG602979-1 WG602979-2								
Tertiary-Amyl Methyl Ether	85		87		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		104		70-130
Toluene-d8	117		118		70-130
4-Bromofluorobenzene	104		105		70-130
Dibromofluoromethane	97		97		70-130

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,07 Batch: WG603275-1 WG603275-2								
Methylene chloride	82		81		70-130	1		30
1,1-Dichloroethane	88		89		70-130	1		30
Chloroform	85		87		70-130	2		30
Carbon tetrachloride	86		88		70-130	2		30
1,2-Dichloropropane	87		87		70-130	0		30
Dibromochloromethane	106		106		70-130	0		30
2-Chloroethylvinyl ether	87		88			1		30
1,1,2-Trichloroethane	108		108		70-130	0		30
Tetrachloroethene	106		109		70-130	3		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,07 Batch: WG603275-1 WG603275-2								
Chlorobenzene	106		108		70-130	2		30
Trichlorofluoromethane	88		93		70-139	6		30
1,2-Dichloroethane	86		86		70-130	0		30
1,1,1-Trichloroethane	85		88		70-130	3		30
Bromodichloromethane	85		85		70-130	0		30
trans-1,3-Dichloropropene	109		110		70-130	1		30
cis-1,3-Dichloropropene	87		88		70-130	1		30
1,1-Dichloropropene	87		90		70-130	3		30
Bromoform	115		113		70-130	2		30
1,1,2,2-Tetrachloroethane	117		115		70-130	2		30
Benzene	85		87		70-130	2		30
Toluene	102		105		70-130	3		30
Ethylbenzene	107		110		70-130	3		30
Chloromethane	87		88		52-130	1		30
Bromomethane	91		93		57-147	2		30
Vinyl chloride	83		88		67-130	6		30
Chloroethane	90		92		50-151	2		30
1,1-Dichloroethene	87		92		65-135	6		30
trans-1,2-Dichloroethene	85		88		70-130	3		30
Trichloroethene	82		85		70-130	4		30
1,2-Dichlorobenzene	118		117		70-130	1		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,07 Batch: WG603275-1 WG603275-2								
1,3-Dichlorobenzene	118		119		70-130	1		30
1,4-Dichlorobenzene	118		118		70-130	0		30
Methyl tert butyl ether	82		81		66-130	1		30
p/m-Xylene	109		111		70-130	2		30
o-Xylene	109		110		70-130	1		30
cis-1,2-Dichloroethene	86		86		70-130	0		30
Dibromomethane	84		84		70-130	0		30
Styrene	110		111		70-130	1		30
Dichlorodifluoromethane	91		97		30-146	6		30
Acetone	78		89		54-140	13		30
Carbon disulfide	84		87		59-130	4		30
2-Butanone	99		104		70-130	5		30
Vinyl acetate	89		87		70-130	2		30
4-Methyl-2-pentanone	84		82		70-130	2		30
1,2,3-Trichloropropane	119		117		68-130	2		30
2-Hexanone	108		107		70-130	1		30
Bromochloromethane	85		85		70-130	0		30
2,2-Dichloropropane	85		89		70-130	5		30
1,2-Dibromoethane	105		104		70-130	1		30
1,3-Dichloropropane	107		106		69-130	1		30
1,1,1,2-Tetrachloroethane	104		107		70-130	3		30



# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,07 Batch: WG603275-1 WG603275-2								
Bromobenzene	118		118		70-130	0		30
n-Butylbenzene	124		127		70-130	2		30
sec-Butylbenzene	121		124		70-130	2		30
tert-Butylbenzene	120		121		70-130	1		30
o-Chlorotoluene	120		121		70-130	1		30
p-Chlorotoluene	120		121		70-130	1		30
1,2-Dibromo-3-chloropropane	114		115		68-130	1		30
Hexachlorobutadiene	121		122		67-130	1		30
Isopropylbenzene	120		122		70-130	2		30
p-Isopropyltoluene	121		124		70-130	2		30
Naphthalene	118		115		70-130	3		30
Acrylonitrile	84		82		70-130	2		30
Isopropyl Ether	88		88		66-130	0		30
tert-Butyl Alcohol	84		82		70-130	2		30
n-Propylbenzene	121		123		70-130	2		30
1,2,3-Trichlorobenzene	121		120		70-130	1		30
1,2,4-Trichlorobenzene	119		119		70-130	0		30
1,3,5-Trimethylbenzene	121		122		70-130	1		30
1,2,4-Trimethylbenzene	121		123		70-130	2		30
Methyl Acetate	88		85		51-146	3		30
Ethyl Acetate	85		84		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05,07 Batch: WG603275-1 WG603275-2								
Acrolein	62	Q	62	Q	70-130	0		30
Cyclohexane	90		95		59-142	5		30
1,4-Dioxane	85		84		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	88		92		50-139	4		30
1,4-Diethylbenzene	119		122		70-130	2		30
4-Ethyltoluene	119		121		70-130	2		30
1,2,4,5-Tetramethylbenzene	121		121		70-130	0		30
Tetrahydrofuran	82		80		66-130	2		30
Ethyl ether	83		84		67-130	1		30
trans-1,4-Dichloro-2-butene	117		115		70-130	2		30
Methyl cyclohexane	88		93		70-130	6		30
Ethyl-Tert-Butyl-Ether	86		87		70-130	1		30
Tertiary-Amyl Methyl Ether	84		83		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	118		119		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	96		97		70-130

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-1 WG603276-2								
Methylene chloride	82		81		70-130	1		30
1,1-Dichloroethane	88		89		70-130	1		30
Chloroform	85		87		70-130	2		30
Carbon tetrachloride	86		88		70-130	2		30
1,2-Dichloropropane	87		87		70-130	0		30
Dibromochloromethane	106		106		70-130	0		30
2-Chloroethylvinyl ether	87		88			1		30
1,1,2-Trichloroethane	108		108		70-130	0		30
Tetrachloroethene	106		109		70-130	3		30
Chlorobenzene	106		108		70-130	2		30
Trichlorofluoromethane	88		93		70-139	6		30
1,2-Dichloroethane	86		86		70-130	0		30
1,1,1-Trichloroethane	85		88		70-130	3		30
Bromodichloromethane	85		85		70-130	0		30
trans-1,3-Dichloropropene	109		110		70-130	1		30
cis-1,3-Dichloropropene	87		88		70-130	1		30
1,1-Dichloropropene	87		90		70-130	3		30
Bromoform	115		113		70-130	2		30
1,1,2,2-Tetrachloroethane	117		115		70-130	2		30
Benzene	85		87		70-130	2		30
Toluene	102		105		70-130	3		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-1 WG603276-2								
Ethylbenzene	107		110		70-130	3		30
Chloromethane	87		88		52-130	1		30
Bromomethane	91		93		57-147	2		30
Vinyl chloride	83		88		67-130	6		30
Chloroethane	90		92		50-151	2		30
1,1-Dichloroethene	87		92		65-135	6		30
trans-1,2-Dichloroethene	85		88		70-130	3		30
Trichloroethene	82		85		70-130	4		30
1,2-Dichlorobenzene	118		117		70-130	1		30
1,3-Dichlorobenzene	118		119		70-130	1		30
1,4-Dichlorobenzene	118		118		70-130	0		30
Methyl tert butyl ether	82		81		66-130	1		30
p/m-Xylene	109		111		70-130	2		30
o-Xylene	109		110		70-130	1		30
cis-1,2-Dichloroethene	86		86		70-130	0		30
Dibromomethane	84		84		70-130	0		30
Styrene	110		111		70-130	1		30
Dichlorodifluoromethane	91		97		30-146	6		30
Acetone	78		89		54-140	13		30
Carbon disulfide	84		87		59-130	4		30
2-Butanone	99		104		70-130	5		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-1 WG603276-2								
Vinyl acetate	89		87		70-130	2		30
4-Methyl-2-pentanone	84		82		70-130	2		30
1,2,3-Trichloropropane	119		117		68-130	2		30
2-Hexanone	108		107		70-130	1		30
Bromochloromethane	85		85		70-130	0		30
2,2-Dichloropropane	85		89		70-130	5		30
1,2-Dibromoethane	105		104		70-130	1		30
1,3-Dichloropropane	107		106		69-130	1		30
1,1,1,2-Tetrachloroethane	104		107		70-130	3		30
Bromobenzene	118		118		70-130	0		30
n-Butylbenzene	124		127		70-130	2		30
sec-Butylbenzene	121		124		70-130	2		30
tert-Butylbenzene	120		121		70-130	1		30
o-Chlorotoluene	120		121		70-130	1		30
p-Chlorotoluene	120		121		70-130	1		30
1,2-Dibromo-3-chloropropane	114		115		68-130	1		30
Hexachlorobutadiene	121		122		67-130	1		30
Isopropylbenzene	120		122		70-130	2		30
p-Isopropyltoluene	121		124		70-130	2		30
Naphthalene	118		115		70-130	3		30
Acrylonitrile	84		82		70-130	2		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-1 WG603276-2								
Isopropyl Ether	88		88		66-130	0		30
tert-Butyl Alcohol	84		82		70-130	2		30
n-Propylbenzene	121		123		70-130	2		30
1,2,3-Trichlorobenzene	121		120		70-130	1		30
1,2,4-Trichlorobenzene	119		119		70-130	0		30
1,3,5-Trimethylbenzene	121		122		70-130	1		30
1,2,4-Trimethylbenzene	121		123		70-130	2		30
Methyl Acetate	88		85		51-146	3		30
Ethyl Acetate	85		84		70-130	1		30
Acrolein	62	Q	62	Q	70-130	0		30
Cyclohexane	90		95		59-142	5		30
1,4-Dioxane	85		84		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	88		92		50-139	4		30
1,4-Diethylbenzene	119		122		70-130	2		30
4-Ethyltoluene	119		121		70-130	2		30
1,2,4,5-Tetramethylbenzene	121		121		70-130	0		30
Tetrahydrofuran	82		80		66-130	2		30
Ethyl ether	83		84		67-130	1		30
trans-1,4-Dichloro-2-butene	117		115		70-130	2		30
Methyl cyclohexane	88		93		70-130	6		30
Ethyl-Tert-Butyl-Ether	86		87		70-130	1		30

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-1 WG603276-2								
Tertiary-Amyl Methyl Ether	84		83		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	118		119		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	96		97		70-130

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-4 WG603276-5								
Methylene chloride	78		77		70-130	1		30
1,1-Dichloroethane	84		82		70-130	2		30
Chloroform	83		81		70-130	2		30
Carbon tetrachloride	83		79		70-130	5		30
1,2-Dichloropropane	84		82		70-130	2		30
Dibromochloromethane	102		102		70-130	0		30
2-Chloroethylvinyl ether	84		83			1		30
1,1,2-Trichloroethane	104		103		70-130	1		30
Tetrachloroethene	104		100		70-130	4		30

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-4 WG603276-5								
Chlorobenzene	104		102		70-130	2		30
Trichlorofluoromethane	90		86		70-139	5		30
1,2-Dichloroethane	83		81		70-130	2		30
1,1,1-Trichloroethane	83		79		70-130	5		30
Bromodichloromethane	82		81		70-130	1		30
trans-1,3-Dichloropropene	105		104		70-130	1		30
cis-1,3-Dichloropropene	86		84		70-130	2		30
1,1-Dichloropropene	84		80		70-130	5		30
Bromoform	112		110		70-130	2		30
1,1,2,2-Tetrachloroethane	111		111		70-130	0		30
Benzene	83		80		70-130	4		30
Toluene	99		97		70-130	2		30
Ethylbenzene	104		101		70-130	3		30
Chloromethane	80		79		52-130	1		30
Bromomethane	86		83		57-147	4		30
Vinyl chloride	79		75		67-130	5		30
Chloroethane	95		92		50-151	3		30
1,1-Dichloroethene	86		82		65-135	5		30
trans-1,2-Dichloroethene	83		81		70-130	2		30
Trichloroethene	80		78		70-130	3		30
1,2-Dichlorobenzene	115		113		70-130	2		30



# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-4 WG603276-5								
1,3-Dichlorobenzene	116		113		70-130	3		30
1,4-Dichlorobenzene	114		114		70-130	0		30
Methyl tert butyl ether	81		80		66-130	1		30
p/m-Xylene	105		103		70-130	2		30
o-Xylene	105		103		70-130	2		30
cis-1,2-Dichloroethene	84		82		70-130	2		30
Dibromomethane	81		80		70-130	1		30
Styrene	106		105		70-130	1		30
Dichlorodifluoromethane	88		83		30-146	6		30
Acetone	90		81		54-140	11		30
Carbon disulfide	81		78		59-130	4		30
2-Butanone	102		99		70-130	3		30
Vinyl acetate	86		84		70-130	2		30
4-Methyl-2-pentanone	81		81		70-130	0		30
1,2,3-Trichloropropane	114		114		68-130	0		30
2-Hexanone	104		102		70-130	2		30
Bromochloromethane	83		82		70-130	1		30
2,2-Dichloropropane	83		80		70-130	4		30
1,2-Dibromoethane	103		101		70-130	2		30
1,3-Dichloropropane	103		102		69-130	1		30
1,1,1,2-Tetrachloroethane	102		101		70-130	1		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-4 WG603276-5								
Bromobenzene	115		114		70-130	1		30
n-Butylbenzene	119		116		70-130	3		30
sec-Butylbenzene	117		114		70-130	3		30
tert-Butylbenzene	116		112		70-130	4		30
o-Chlorotoluene	118		114		70-130	3		30
p-Chlorotoluene	116		114		70-130	2		30
1,2-Dibromo-3-chloropropane	113		112		68-130	1		30
Hexachlorobutadiene	116		113		67-130	3		30
Isopropylbenzene	116		113		70-130	3		30
p-Isopropyltoluene	118		115		70-130	3		30
Naphthalene	114		113		70-130	1		30
Acrylonitrile	80		79		70-130	1		30
Isopropyl Ether	85		83		66-130	2		30
tert-Butyl Alcohol	81		82		70-130	1		30
n-Propylbenzene	117		114		70-130	3		30
1,2,3-Trichlorobenzene	116		116		70-130	0		30
1,2,4-Trichlorobenzene	116		114		70-130	2		30
1,3,5-Trimethylbenzene	118		115		70-130	3		30
1,2,4-Trimethylbenzene	117		116		70-130	1		30
Methyl Acetate	84		83		51-146	1		30
Ethyl Acetate	82		81		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 16 Batch: WG603276-4 WG603276-5								
Acrolein	59	Q	60	Q	70-130	2		30
Cyclohexane	87		83		59-142	5		30
1,4-Dioxane	84		87		65-136	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	85		82		50-139	4		30
1,4-Diethylbenzene	116		114		70-130	2		30
4-Ethyltoluene	116		113		70-130	3		30
1,2,4,5-Tetramethylbenzene	117		115		70-130	2		30
Tetrahydrofuran	78		77		66-130	1		30
Ethyl ether	83		82		67-130	1		30
trans-1,4-Dichloro-2-butene	111		110		70-130	1		30
Methyl cyclohexane	86		82		70-130	5		30
Ethyl-Tert-Butyl-Ether	85		84		70-130	1		30
Tertiary-Amyl Methyl Ether	82		82		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		100		70-130
Toluene-d8	117		117		70-130
4-Bromofluorobenzene	105		104		70-130
Dibromofluoromethane	96		95		70-130

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 17-21,23-26 Batch: WG603479-1 WG603479-2								
Methylene chloride	78		77		70-130	1		30
1,1-Dichloroethane	84		82		70-130	2		30
Chloroform	83		81		70-130	2		30
Carbon tetrachloride	83		79		70-130	5		30
1,2-Dichloropropane	84		82		70-130	2		30
Dibromochloromethane	102		102		70-130	0		30
2-Chloroethylvinyl ether	84		83			1		30
1,1,2-Trichloroethane	104		103		70-130	1		30
Tetrachloroethene	104		100		70-130	4		30
Chlorobenzene	104		102		70-130	2		30
Trichlorofluoromethane	90		86		70-139	5		30
1,2-Dichloroethane	83		81		70-130	2		30
1,1,1-Trichloroethane	83		79		70-130	5		30
Bromodichloromethane	82		81		70-130	1		30
trans-1,3-Dichloropropene	105		104		70-130	1		30
cis-1,3-Dichloropropene	86		84		70-130	2		30
1,1-Dichloropropene	84		80		70-130	5		30
Bromoform	112		110		70-130	2		30
1,1,2,2-Tetrachloroethane	111		111		70-130	0		30
Benzene	83		80		70-130	4		30
Toluene	99		97		70-130	2		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 17-21,23-26 Batch: WG603479-1 WG603479-2								
Ethylbenzene	104		101		70-130	3		30
Chloromethane	80		79		52-130	1		30
Bromomethane	86		83		57-147	4		30
Vinyl chloride	79		75		67-130	5		30
Chloroethane	95		92		50-151	3		30
1,1-Dichloroethene	86		82		65-135	5		30
trans-1,2-Dichloroethene	83		81		70-130	2		30
Trichloroethene	80		78		70-130	3		30
1,2-Dichlorobenzene	115		113		70-130	2		30
1,3-Dichlorobenzene	116		113		70-130	3		30
1,4-Dichlorobenzene	114		114		70-130	0		30
Methyl tert butyl ether	81		80		66-130	1		30
p/m-Xylene	105		103		70-130	2		30
o-Xylene	105		103		70-130	2		30
cis-1,2-Dichloroethene	84		82		70-130	2		30
Dibromomethane	81		80		70-130	1		30
Styrene	106		105		70-130	1		30
Dichlorodifluoromethane	88		83		30-146	6		30
Acetone	90		81		54-140	11		30
Carbon disulfide	81		78		59-130	4		30
2-Butanone	102		99		70-130	3		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 17-21,23-26 Batch: WG603479-1 WG603479-2								
Vinyl acetate	86		84		70-130	2		30
4-Methyl-2-pentanone	81		81		70-130	0		30
1,2,3-Trichloropropane	114		114		68-130	0		30
2-Hexanone	104		102		70-130	2		30
Bromochloromethane	83		82		70-130	1		30
2,2-Dichloropropane	83		80		70-130	4		30
1,2-Dibromoethane	103		101		70-130	2		30
1,3-Dichloropropane	103		102		69-130	1		30
1,1,1,2-Tetrachloroethane	102		101		70-130	1		30
Bromobenzene	115		114		70-130	1		30
n-Butylbenzene	119		116		70-130	3		30
sec-Butylbenzene	117		114		70-130	3		30
tert-Butylbenzene	116		112		70-130	4		30
o-Chlorotoluene	118		114		70-130	3		30
p-Chlorotoluene	116		114		70-130	2		30
1,2-Dibromo-3-chloropropane	113		112		68-130	1		30
Hexachlorobutadiene	116		113		67-130	3		30
Isopropylbenzene	116		113		70-130	3		30
p-Isopropyltoluene	118		115		70-130	3		30
Naphthalene	114		113		70-130	1		30
Acrylonitrile	80		79		70-130	1		30

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 17-21,23-26 Batch: WG603479-1 WG603479-2								
Isopropyl Ether	85		83		66-130	2		30
tert-Butyl Alcohol	81		82		70-130	1		30
n-Propylbenzene	117		114		70-130	3		30
1,2,3-Trichlorobenzene	116		116		70-130	0		30
1,2,4-Trichlorobenzene	116		114		70-130	2		30
1,3,5-Trimethylbenzene	118		115		70-130	3		30
1,2,4-Trimethylbenzene	117		116		70-130	1		30
Methyl Acetate	84		83		51-146	1		30
Ethyl Acetate	82		81		70-130	1		30
Acrolein	59	Q	60	Q	70-130	2		30
Cyclohexane	87		83		59-142	5		30
1,4-Dioxane	84		87		65-136	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	85		82		50-139	4		30
1,4-Diethylbenzene	116		114		70-130	2		30
4-Ethyltoluene	116		113		70-130	3		30
1,2,4,5-Tetramethylbenzene	117		115		70-130	2		30
Tetrahydrofuran	78		77		66-130	1		30
Ethyl ether	83		82		67-130	1		30
trans-1,4-Dichloro-2-butene	111		110		70-130	1		30
Methyl cyclohexane	86		82		70-130	5		30
Ethyl-Tert-Butyl-Ether	85		84		70-130	1		30

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Lab Number:** L1307016

**Project Number:** E040

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 17-21,23-26 Batch: WG603479-1 WG603479-2								
Tertiary-Amyl Methyl Ether	82		82		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		100		70-130
Toluene-d8	117		117		70-130
4-Bromofluorobenzene	105		104		70-130
Dibromofluoromethane	96		95		70-130

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 27-30,32,34,38 Batch: WG603522-1 WG603522-2								
Methylene chloride	99		94		70-130	5		30
1,1-Dichloroethane	108		98		70-130	10		30
Chloroform	106		96		70-130	10		30
Carbon tetrachloride	114		99		70-130	14		30
1,2-Dichloropropane	107		100		70-130	7		30
Dibromochloromethane	91		85		70-130	7		30
2-Chloroethylvinyl ether	107		100			7		30
1,1,2-Trichloroethane	87		84		70-130	4		30
Tetrachloroethene	105		92		70-130	13		30



# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 27-30,32,34,38 Batch: WG603522-1 WG603522-2								
Chlorobenzene	98		92		70-130	6		30
Trichlorofluoromethane	104		90		70-139	14		30
1,2-Dichloroethane	99		92		70-130	7		30
1,1,1-Trichloroethane	108		96		70-130	12		30
Bromodichloromethane	103		96		70-130	7		30
trans-1,3-Dichloropropene	91		86		70-130	6		30
cis-1,3-Dichloropropene	102		95		70-130	7		30
1,1-Dichloropropene	114		97		70-130	16		30
Bromoform	77		75		70-130	3		30
1,1,2,2-Tetrachloroethane	78		75		70-130	4		30
Benzene	108		97		70-130	11		30
Toluene	97		89		70-130	9		30
Ethylbenzene	101		92		70-130	9		30
Chloromethane	141	Q	121		52-130	15		30
Bromomethane	68		63		57-147	8		30
Vinyl chloride	110		95		67-130	15		30
Chloroethane	97		85		50-151	13		30
1,1-Dichloroethene	114		98		65-135	15		30
trans-1,2-Dichloroethene	111		98		70-130	12		30
Trichloroethene	106		93		70-130	13		30
1,2-Dichlorobenzene	96		90		70-130	6		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 27-30,32,34,38 Batch: WG603522-1 WG603522-2								
1,3-Dichlorobenzene	98		91		70-130	7		30
1,4-Dichlorobenzene	97		90		70-130	7		30
Methyl tert butyl ether	93		89		66-130	4		30
p/m-Xylene	103		94		70-130	9		30
o-Xylene	101		93		70-130	8		30
cis-1,2-Dichloroethene	106		98		70-130	8		30
Dibromomethane	98		92		70-130	6		30
Styrene	97		90		70-130	7		30
Dichlorodifluoromethane	125		105		30-146	17		30
Acetone	92		81		54-140	13		30
Carbon disulfide	102		88		59-130	15		30
2-Butanone	102		92		70-130	10		30
Vinyl acetate	83		79		70-130	5		30
4-Methyl-2-pentanone	74		70		70-130	6		30
1,2,3-Trichloropropane	77		75		68-130	3		30
2-Hexanone	67	Q	64	Q	70-130	5		30
Bromochloromethane	104		97		70-130	7		30
2,2-Dichloropropane	106		92		70-130	14		30
1,2-Dibromoethane	88		85		70-130	3		30
1,3-Dichloropropane	90		87		69-130	3		30
1,1,1,2-Tetrachloroethane	94		88		70-130	7		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 27-30,32,34,38 Batch: WG603522-1 WG603522-2								
Bromobenzene	93		89		70-130	4		30
n-Butylbenzene	106		94		70-130	12		30
sec-Butylbenzene	104		93		70-130	11		30
tert-Butylbenzene	105		95		70-130	10		30
o-Chlorotoluene	104		96		70-130	8		30
p-Chlorotoluene	98		91		70-130	7		30
1,2-Dibromo-3-chloropropane	78		56	Q	68-130	33	Q	30
Hexachlorobutadiene	106		94		67-130	12		30
Isopropylbenzene	100		91		70-130	9		30
p-Isopropyltoluene	105		94		70-130	11		30
Naphthalene	83		79		70-130	5		30
Acrylonitrile	85		81		70-130	5		30
Isopropyl Ether	107		101		66-130	6		30
tert-Butyl Alcohol	75		69	Q	70-130	8		30
n-Propylbenzene	100		90		70-130	11		30
1,2,3-Trichlorobenzene	95		89		70-130	7		30
1,2,4-Trichlorobenzene	99		94		70-130	5		30
1,3,5-Trimethylbenzene	101		93		70-130	8		30
1,2,4-Trimethylbenzene	103		94		70-130	9		30
Methyl Acetate	80		76		51-146	5		30
Ethyl Acetate	76		73		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 27-30,32,34,38 Batch: WG603522-1 WG603522-2								
Acrolein	75		72		70-130	4		30
Cyclohexane	117		100		59-142	16		30
1,4-Dioxane	93		88		65-136	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	113		98		50-139	14		30
1,4-Diethylbenzene	104		94		70-130	10		30
4-Ethyltoluene	100		92		70-130	8		30
1,2,4,5-Tetramethylbenzene	104		96		70-130	8		30
Tetrahydrofuran	83		80		66-130	4		30
Ethyl ether	92		89		67-130	3		30
trans-1,4-Dichloro-2-butene	68	Q	66	Q	70-130	3		30
Methyl cyclohexane	118		100		70-130	17		30
Ethyl-Tert-Butyl-Ether	101		96		70-130	5		30
Tertiary-Amyl Methyl Ether	96		92		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		88		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	100		99		70-130

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22,31,33,37 Batch: WG603524-1 WG603524-2								
Methylene chloride	99		94		70-130	5		30
1,1-Dichloroethane	108		98		70-130	10		30
Chloroform	106		96		70-130	10		30
Carbon tetrachloride	114		99		70-130	14		30
1,2-Dichloropropane	107		100		70-130	7		30
Dibromochloromethane	91		85		70-130	7		30
2-Chloroethylvinyl ether	107		100			7		30
1,1,2-Trichloroethane	87		84		70-130	4		30
Tetrachloroethene	105		92		70-130	13		30
Chlorobenzene	98		92		70-130	6		30
Trichlorofluoromethane	104		90		70-139	14		30
1,2-Dichloroethane	99		92		70-130	7		30
1,1,1-Trichloroethane	108		96		70-130	12		30
Bromodichloromethane	103		96		70-130	7		30
trans-1,3-Dichloropropene	91		86		70-130	6		30
cis-1,3-Dichloropropene	102		95		70-130	7		30
1,1-Dichloropropene	114		97		70-130	16		30
Bromoform	77		75		70-130	3		30
1,1,2,2-Tetrachloroethane	78		75		70-130	4		30
Benzene	108		97		70-130	11		30
Toluene	97		89		70-130	9		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22,31,33,37 Batch: WG603524-1 WG603524-2								
Ethylbenzene	101		92		70-130	9		30
Chloromethane	141	Q	121		52-130	15		30
Bromomethane	68		63		57-147	8		30
Vinyl chloride	110		95		67-130	15		30
Chloroethane	97		85		50-151	13		30
1,1-Dichloroethene	114		98		65-135	15		30
trans-1,2-Dichloroethene	111		98		70-130	12		30
Trichloroethene	106		93		70-130	13		30
1,2-Dichlorobenzene	96		90		70-130	6		30
1,3-Dichlorobenzene	98		91		70-130	7		30
1,4-Dichlorobenzene	97		90		70-130	7		30
Methyl tert butyl ether	93		89		66-130	4		30
p/m-Xylene	103		94		70-130	9		30
o-Xylene	101		93		70-130	8		30
cis-1,2-Dichloroethene	106		98		70-130	8		30
Dibromomethane	98		92		70-130	6		30
Styrene	97		90		70-130	7		30
Dichlorodifluoromethane	125		105		30-146	17		30
Acetone	92		81		54-140	13		30
Carbon disulfide	102		88		59-130	15		30
2-Butanone	102		92		70-130	10		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22,31,33,37 Batch: WG603524-1 WG603524-2								
Vinyl acetate	83		79		70-130	5		30
4-Methyl-2-pentanone	74		70		70-130	6		30
1,2,3-Trichloropropane	77		75		68-130	3		30
2-Hexanone	67	Q	64	Q	70-130	5		30
Bromochloromethane	104		97		70-130	7		30
2,2-Dichloropropane	106		92		70-130	14		30
1,2-Dibromoethane	88		85		70-130	3		30
1,3-Dichloropropane	90		87		69-130	3		30
1,1,1,2-Tetrachloroethane	94		88		70-130	7		30
Bromobenzene	93		89		70-130	4		30
n-Butylbenzene	106		94		70-130	12		30
sec-Butylbenzene	104		93		70-130	11		30
tert-Butylbenzene	105		95		70-130	10		30
o-Chlorotoluene	104		96		70-130	8		30
p-Chlorotoluene	98		91		70-130	7		30
1,2-Dibromo-3-chloropropane	78		56	Q	68-130	33	Q	30
Hexachlorobutadiene	106		94		67-130	12		30
Isopropylbenzene	100		91		70-130	9		30
p-Isopropyltoluene	105		94		70-130	11		30
Naphthalene	83		79		70-130	5		30
Acrylonitrile	85		81		70-130	5		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22,31,33,37 Batch: WG603524-1 WG603524-2								
Isopropyl Ether	107		101		66-130	6		30
tert-Butyl Alcohol	75		69	Q	70-130	8		30
n-Propylbenzene	100		90		70-130	11		30
1,2,3-Trichlorobenzene	95		89		70-130	7		30
1,2,4-Trichlorobenzene	99		94		70-130	5		30
1,3,5-Trimethylbenzene	101		93		70-130	8		30
1,2,4-Trimethylbenzene	103		94		70-130	9		30
Methyl Acetate	80		76		51-146	5		30
Ethyl Acetate	76		73		70-130	4		30
Acrolein	75		72		70-130	4		30
Cyclohexane	117		100		59-142	16		30
1,4-Dioxane	93		88		65-136	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	113		98		50-139	14		30
1,4-Diethylbenzene	104		94		70-130	10		30
4-Ethyltoluene	100		92		70-130	8		30
1,2,4,5-Tetramethylbenzene	104		96		70-130	8		30
Tetrahydrofuran	83		80		66-130	4		30
Ethyl ether	92		89		67-130	3		30
trans-1,4-Dichloro-2-butene	68	Q	66	Q	70-130	3		30
Methyl cyclohexane	118		100		70-130	17		30
Ethyl-Tert-Butyl-Ether	101		96		70-130	5		30



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Lab Number:** L1307016

**Project Number:** E040

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22,31,33,37 Batch: WG603524-1 WG603524-2								
Tertiary-Amyl Methyl Ether	96		92		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	100		99		70-130

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22 Batch: WG603524-4 WG603524-5								
Methylene chloride	81		84		70-130	16		30
1,1-Dichloroethane	87		91		70-130	17		30
Chloroform	85		88		70-130	19		30
Carbon tetrachloride	83		88		70-130	26		30
1,2-Dichloropropane	87		90		70-130	17		30
Dibromochloromethane	105		108		70-130	17		30
2-Chloroethylvinyl ether	87		90			17		30
1,1,2-Trichloroethane	108		110		70-130	23		30
Tetrachloroethene	100		108		70-130	3		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22 Batch: WG603524-4 WG603524-5								
Chlorobenzene	104		109		70-130	11		30
Trichlorofluoromethane	90		100		70-139	4		30
1,2-Dichloroethane	88		90		70-130	10		30
1,1,1-Trichloroethane	83		89		70-130	19		30
Bromodichloromethane	86		88		70-130	16		30
trans-1,3-Dichloropropene	108		111		70-130	20		30
cis-1,3-Dichloropropene	87		89		70-130	14		30
1,1-Dichloropropene	83		90		70-130	24		30
Bromoform	114		115		70-130	40	Q	30
1,1,2,2-Tetrachloroethane	117		119		70-130	42	Q	30
Benzene	84		87		70-130	22		30
Toluene	99		104		70-130	7		30
Ethylbenzene	103		110		70-130	9		30
Chloromethane	86		88		52-130	46	Q	30
Bromomethane	97		92		57-147	30		30
Vinyl chloride	80		87		67-130	23		30
Chloroethane	96		105		50-151	8		30
1,1-Dichloroethene	84		91		65-135	22		30
trans-1,2-Dichloroethene	83		88		70-130	23		30
Trichloroethene	80		85		70-130	22		30
1,2-Dichlorobenzene	114		120		70-130	22		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22 Batch: WG603524-4 WG603524-5								
1,3-Dichlorobenzene	114		119		70-130	19		30
1,4-Dichlorobenzene	114		120		70-130	21		30
Methyl tert butyl ether	84		85		66-130	9		30
p/m-Xylene	104		110		70-130	7		30
o-Xylene	106		110		70-130	9		30
cis-1,2-Dichloroethene	85		88		70-130	19		30
Dibromomethane	86		86		70-130	13		30
Styrene	108		112		70-130	14		30
Dichlorodifluoromethane	92		99		30-146	23		30
Acetone	92		96		54-140	4		30
Carbon disulfide	82		88		59-130	15		30
2-Butanone	106		109		70-130	7		30
Vinyl acetate	92		94		70-130	12		30
4-Methyl-2-pentanone	85		87		70-130	16		30
1,2,3-Trichloropropane	119		122		68-130	45	Q	30
2-Hexanone	109		112		70-130	50	Q	30
Bromochloromethane	87		88		70-130	17		30
2,2-Dichloropropane	83		89		70-130	17		30
1,2-Dibromoethane	105		108		70-130	20		30
1,3-Dichloropropane	107		110		69-130	20		30
1,1,1,2-Tetrachloroethane	103		106		70-130	12		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22 Batch: WG603524-4 WG603524-5								
Bromobenzene	114		119		70-130	25		30
n-Butylbenzene	116		125		70-130	16		30
sec-Butylbenzene	114		123		70-130	17		30
tert-Butylbenzene	112		120		70-130	13		30
o-Chlorotoluene	116		124		70-130	18		30
p-Chlorotoluene	116		121		70-130	21		30
1,2-Dibromo-3-chloropropane	112		117		68-130	40	Q	30
Hexachlorobutadiene	111		119		67-130	12		30
Isopropylbenzene	113		121		70-130	19		30
p-Isopropyltoluene	114		123		70-130	16		30
Naphthalene	116		118		70-130	35	Q	30
Acrylonitrile	87		88		70-130	3		30
Isopropyl Ether	90		92		66-130	15		30
tert-Butyl Alcohol	87		88		70-130	16		30
n-Propylbenzene	115		123		70-130	21		30
1,2,3-Trichlorobenzene	117		118		70-130	22		30
1,2,4-Trichlorobenzene	115		119		70-130	18		30
1,3,5-Trimethylbenzene	115		122		70-130	19		30
1,2,4-Trimethylbenzene	117		123		70-130	18		30
Methyl Acetate	90		92		51-146	14		30
Ethyl Acetate	89		89		70-130	16		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22 Batch: WG603524-4 WG603524-5								
Acrolein	72		73		70-130	3		30
Cyclohexane	87		94		59-142	22		30
1,4-Dioxane	83		83		65-136	11		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	84		91		50-139	22		30
1,4-Diethylbenzene	113		120		70-130	14		30
4-Ethyltoluene	113		121		70-130	19		30
1,2,4,5-Tetramethylbenzene	115		121		70-130	15		30
Tetrahydrofuran	84		87		66-130	5		30
Ethyl ether	87		87		67-130	6		30
trans-1,4-Dichloro-2-butene	119		120		70-130	55	Q	30
Methyl cyclohexane	83		90		70-130	27		30
Ethyl-Tert-Butyl-Ether	88		89		70-130	13		30
Tertiary-Amyl Methyl Ether	85		86		70-130	11		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		104		70-130
Toluene-d8	117		117		70-130
4-Bromofluorobenzene	104		105		70-130
Dibromofluoromethane	97		96		70-130

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 35-36 Batch: WG604351-1 WG604351-2								
Methylene chloride	91		89		70-130	2		20
1,1-Dichloroethane	93		90		70-130	3		20
Chloroform	95		92		70-130	3		20
Carbon tetrachloride	98		93		63-132	5		20
1,2-Dichloropropane	91		89		70-130	2		20
Dibromochloromethane	99		105		63-130	6		20
1,1,2-Trichloroethane	98		102		70-130	4		20
Tetrachloroethene	106		102		70-130	4		20
Chlorobenzene	101		99		75-130	2		20
Trichlorofluoromethane	96		92		62-150	4		20
1,2-Dichloroethane	91		93		70-130	2		20
1,1,1-Trichloroethane	95		93		67-130	2		20
Bromodichloromethane	94		92		67-130	2		20
trans-1,3-Dichloropropene	98		100		70-130	2		20
cis-1,3-Dichloropropene	93		93		70-130	0		20
1,1-Dichloropropene	95		92		70-130	3		20
Bromoform	102		107		54-136	5		20
1,1,2,2-Tetrachloroethane	101		108		67-130	7		20
Benzene	93		90		70-130	3		20
Toluene	101		98		70-130	3		20
Ethylbenzene	102		99		70-130	3		20

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 35-36 Batch: WG604351-1 WG604351-2								
Chloromethane	93		87		64-130	7		20
Bromomethane	77		74		39-139	4		20
Vinyl chloride	93		89		55-140	4		20
Chloroethane	106		101		55-138	5		20
1,1-Dichloroethene	96		94		61-145	2		20
trans-1,2-Dichloroethene	94		92		70-130	2		20
Trichloroethene	90		88		70-130	2		20
1,2-Dichlorobenzene	105		103		70-130	2		20
1,3-Dichlorobenzene	105		104		70-130	1		20
1,4-Dichlorobenzene	105		105		70-130	0		20
Methyl tert butyl ether	86		89		63-130	3		20
p/m-Xylene	103		100		70-130	3		20
o-Xylene	101		101		70-130	0		20
cis-1,2-Dichloroethene	93		91		70-130	2		20
Dibromomethane	92		96		70-130	4		20
1,2,3-Trichloropropane	105		112		64-130	6		20
Acrylonitrile	87		91		70-130	4		20
Styrene	103		102		70-130	1		20
Dichlorodifluoromethane	88		84		36-147	5		20
Acetone	113		103		58-148	9		20
Carbon disulfide	90		87		51-130	3		20

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 35-36 Batch: WG604351-1 WG604351-2								
2-Butanone	85		83		63-138	2		20
Vinyl acetate	84		87		70-130	4		20
4-Methyl-2-pentanone	83		92		59-130	10		20
2-Hexanone	101		96		57-130	5		20
Bromochloromethane	96		96		70-130	0		20
2,2-Dichloropropane	98		94		63-133	4		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	100		103		70-130	3		20
1,1,1,2-Tetrachloroethane	100		99		64-130	1		20
Bromobenzene	106		106		70-130	0		20
n-Butylbenzene	107		104		53-136	3		20
sec-Butylbenzene	107		105		70-130	2		20
tert-Butylbenzene	107		104		70-130	3		20
o-Chlorotoluene	108		104		70-130	4		20
p-Chlorotoluene	106		103		70-130	3		20
1,2-Dibromo-3-chloropropane	98		101		41-144	3		20
Hexachlorobutadiene	105		103		63-130	2		20
Isopropylbenzene	109		106		70-130	3		20
p-Isopropyltoluene	108		104		70-130	4		20
Naphthalene	90		97		70-130	7		20
n-Propylbenzene	108		105		69-130	3		20



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 35-36 Batch: WG604351-1 WG604351-2								
1,2,3-Trichlorobenzene	95		99		70-130	4		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	109		104		64-130	5		20
1,2,4-Trimethylbenzene	106		104		70-130	2		20
1,4-Dioxane	80		82		56-162	2		20
1,4-Diethylbenzene	105		101		70-130	4		20
4-Ethyltoluene	106		103		70-130	3		20
1,2,4,5-Tetramethylbenzene	103		100		70-130	3		20
Ethyl ether	87		89		59-134	2		20
trans-1,4-Dichloro-2-butene	92		99		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		103		70-130
Toluene-d8	105		106		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	100		99		70-130

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 17-21,23-26 QC Batch ID: WG603479-4 WG603479-5 QC Sample: L1307016-17  
Client ID: SB-27\_7-9

Methylene chloride	ND	22.8	18	77		19	79		70-130	9		30
1,1-Dichloroethane	ND	22.8	19	84		21	87		70-130	10		30
Chloroform	ND	22.8	19	81		21	84		70-130	10		30
Carbon tetrachloride	ND	22.8	19	82		21	87		70-130	11		30
1,2-Dichloropropane	ND	22.8	19	82		21	86		70-130	10		30
Dibromochloromethane	ND	22.8	22	98		25	103		70-130	11		30
1,1,2-Trichloroethane	ND	22.8	23	100		25	103		70-130	10		30
Tetrachloroethene	ND	22.8	23	100		26	106		70-130	12		30
Chlorobenzene	ND	22.8	22	98		25	104		70-130	13		30
Trichlorofluoromethane	ND	22.8	20	88		22	92		70-139	11		30
1,2-Dichloroethane	ND	22.8	19	81		20	84		70-130	10		30
1,1,1-Trichloroethane	ND	22.8	20	88		22	89		70-130	7		30
Bromodichloromethane	ND	22.8	18	81		21	84		70-130	11		30
trans-1,3-Dichloropropene	ND	22.8	23	100		26	105		70-130	11		30
cis-1,3-Dichloropropene	ND	22.8	19	82		21	86		70-130	11		30
1,1-Dichloropropene	ND	22.8	19	83		21	88		70-130	12		30
Bromoform	ND	22.8	24	106		27	110		70-130	11		30
1,1,2,2-Tetrachloroethane	ND	22.8	24	104		27	110		70-130	12		30
Benzene	ND	22.8	19	82		21	86		70-130	11		30
Toluene	ND	22.8	22	97		25	101		70-130	10		30
Ethylbenzene	ND	22.8	23	99		26	106		70-130	12		30

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 17-21,23-26 QC Batch ID: WG603479-4 WG603479-5 QC Sample: L1307016-17  
Client ID: SB-27\_7-9

Chloromethane	ND	22.8	19	84		21	87		52-130	9		30
Bromomethane	ND	22.8	21	92		22	90		57-147	5		30
Vinyl chloride	ND	22.8	18	79		20	81		67-130	10		30
Chloroethane	ND	22.8	22	96		24	97		50-151	7		30
1,1-Dichloroethene	ND	22.8	20	86		22	89		65-135	9		30
trans-1,2-Dichloroethene	ND	22.8	19	82		21	87		70-130	11		30
Trichloroethene	ND	22.8	19	81		20	83		70-130	9		30
1,2-Dichlorobenzene	ND	22.8	23	100		27	110		70-130	15		30
1,3-Dichlorobenzene	ND	22.8	23	101		27	110		70-130	15		30
1,4-Dichlorobenzene	ND	22.8	23	101		27	110		70-130	15		30
Methyl tert butyl ether	ND	22.8	18	78		20	81		66-130	10		30
p/m-Xylene	ND	45.6	45	99		52	106		70-130	13		30
o-Xylene	ND	45.6	45	99		51	106		70-130	13		30
cis-1,2-Dichloroethene	ND	22.8	19	82		21	86		70-130	11		30
Dibromomethane	ND	22.8	18	80		20	82		70-130	8		30
Styrene	ND	45.6	45	100		52	106		70-130	13		30
Dichlorodifluoromethane	ND	22.8	20	87		22	92		30-146	12		30
Acetone	ND	22.8	31	138		31	129		54-140	0		30
Carbon disulfide	ND	22.8	18	80		20	84		59-130	11		30
2-Butanone	ND	22.8	28	123		30	122		70-130	5		30
Vinyl acetate	ND	22.8	16	68	Q	19	78		70-130	20		30

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 17-21,23-26 QC Batch ID: WG603479-4 WG603479-5 QC Sample: L1307016-17  
Client ID: SB-27\_7-9

4-Methyl-2-pentanone	ND	22.8	18	81		20	83		70-130	9		30
1,2,3-Trichloropropane	ND	22.8	25	108		27	112		68-130	10		30
2-Hexanone	ND	22.8	28	122		29	120		70-130	5		30
Bromochloromethane	ND	22.8	19	81		21	85		70-130	11		30
2,2-Dichloropropane	ND	22.8	19	83		21	86		70-130	10		30
1,2-Dibromoethane	ND	22.8	22	98		25	101		70-130	10		30
1,3-Dichloropropane	ND	22.8	23	100		25	103		69-130	10		30
1,1,1,2-Tetrachloroethane	ND	22.8	22	98		25	104		70-130	12		30
Bromobenzene	ND	22.8	24	105		27	112		70-130	13		30
n-Butylbenzene	ND	22.8	22	98		27	112		70-130	19		30
sec-Butylbenzene	ND	22.8	23	101		28	113		70-130	17		30
tert-Butylbenzene	ND	22.8	23	102		27	113		70-130	17		30
o-Chlorotoluene	ND	22.8	24	106		28	113		70-130	13		30
p-Chlorotoluene	ND	22.8	24	105		28	114		70-130	14		30
1,2-Dibromo-3-chloropropane	ND	22.8	24	104		27	112		68-130	14		30
Hexachlorobutadiene	ND	22.8	18	77		23	94		67-130	26		30
Isopropylbenzene	ND	22.8	24	107		28	116		70-130	14		30
p-Isopropyltoluene	ND	22.8	23	101		28	114		70-130	18		30
Naphthalene	35.	22.8	33	0	Q	29	0	Q	70-130	13		30
Acrylonitrile	ND	22.8	18	79		20	81		70-130	9		30
n-Propylbenzene	ND	22.8	24	106		28	115		70-130	15		30

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 17-21,23-26 QC Batch ID: WG603479-4 WG603479-5 QC Sample: L1307016-17  
Client ID: SB-27\_7-9

1,2,3-Trichlorobenzene	ND	22.8	21	92		25	105		70-130	19		30
1,2,4-Trichlorobenzene	ND	22.8	21	92		25	103		70-130	18		30
1,3,5-Trimethylbenzene	ND	22.8	24	105		28	115		70-130	16		30
1,2,4-Trimethylbenzene	ND	22.8	24	105		28	114		70-130	15		30
1,4-Dioxane	ND	1140	940	82		1100	88		65-136	13		30
1,4-Diethylbenzene	ND	22.8	22	98		27	110		70-130	18		30
4-Ethyltoluene	ND	22.8	24	105		28	114		70-130	15		30
1,2,4,5-Tetramethylbenzene	ND	22.8	22	97		27	110		70-130	19		30
Ethyl ether	ND	22.8	18	80		20	82		67-130	10		30
trans-1,4-Dichloro-2-butene	ND	22.8	24	105		27	109		70-130	10		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	104		103		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	96		96		70-130
Toluene-d8	117		118		70-130

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 27-30,32,34,38 QC Batch ID: WG603522-4 WG603522-5 QC Sample: L1307016-27 Client ID: SB-23\_0-2

Methylene chloride	ND	22.2	19	86		19	87		70-130	2		30
1,1-Dichloroethane	ND	22.2	21	95		21	96		70-130	2		30
Chloroform	1.3J	22.2	21	95		21	98		70-130	0		30
Carbon tetrachloride	ND	22.2	23	103		22	101		70-130	5		30
1,2-Dichloropropane	ND	22.2	20	92		20	94		70-130	1		30
Dibromochloromethane	ND	22.2	17	74		16	75		70-130	3		30
1,1,2-Trichloroethane	ND	22.2	16	72		16	73		70-130	2		30
Tetrachloroethene	ND	22.2	20	90		19	87		70-130	7		30
Chlorobenzene	ND	22.2	18	82		17	81		70-130	6		30
Trichlorofluoromethane	ND	22.2	21	95		20	94		70-139	4		30
1,2-Dichloroethane	ND	22.2	18	81		18	83		70-130	1		30
1,1,1-Trichloroethane	ND	22.2	22	99		22	101		70-130	2		30
Bromodichloromethane	ND	22.2	19	87		19	90		70-130	1		30
trans-1,3-Dichloropropene	ND	22.2	16	72		15	71		70-130	5		30
cis-1,3-Dichloropropene	ND	22.2	19	83		18	85		70-130	2		30
1,1-Dichloropropene	ND	22.2	22	99		21	97		70-130	6		30
Bromoform	ND	22.2	14	62	Q	13	62	Q	70-130	4		30
1,1,2,2-Tetrachloroethane	ND	22.2	14	61	Q	13	61	Q	70-130	5		30
Benzene	ND	22.2	21	94		20	94		70-130	3		30
Toluene	ND	22.2	19	84		18	84		70-130	4		30
Ethylbenzene	ND	22.2	19	85		18	84		70-130	5		30

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 27-30,32,34,38 QC Batch ID: WG603522-4 WG603522-5 QC Sample: L1307016-27 Client ID: SB-23\_0-2

Chloromethane	ND	22.2	26	118		25	118		52-130	3		30
Bromomethane	ND	22.2	14	64		14	64		57-147	2		30
Vinyl chloride	ND	22.2	22	99		21	99		67-130	3		30
Chloroethane	ND	22.2	19	87		18	85		50-151	5		30
1,1-Dichloroethene	ND	22.2	23	103		22	102		65-135	5		30
trans-1,2-Dichloroethene	ND	22.2	22	98		21	96		70-130	6		30
Trichloroethene	ND	22.2	21	95		20	94		70-130	5		30
1,2-Dichlorobenzene	ND	22.2	16	72		15	70		70-130	6		30
1,3-Dichlorobenzene	ND	22.2	16	73		15	70		70-130	8		30
1,4-Dichlorobenzene	ND	22.2	16	72		15	69	Q	70-130	8		30
Methyl tert butyl ether	ND	22.2	17	76		17	78		66-130	1		30
p/m-Xylene	ND	44.4	39	87		36	84		70-130	7		30
o-Xylene	ND	44.4	37	83		36	83		70-130	4		30
cis-1,2-Dichloroethene	ND	22.2	20	91		20	92		70-130	4		30
Dibromomethane	ND	22.2	18	80		17	81		70-130	2		30
Styrene	ND	44.4	34	76		32	75		70-130	5		30
Dichlorodifluoromethane	ND	22.2	24	108		24	112		30-146	0		30
Acetone	ND	22.2	26	117		25	117		54-140	4		30
Carbon disulfide	ND	22.2	20	89		18	86		59-130	7		30
2-Butanone	ND	22.2	23	104		22	104		70-130	4		30
Vinyl acetate	ND	22.2	10.J	46	Q	8.1J	38	Q	70-130	21		30

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 27-30,32,34,38 QC Batch ID: WG603522-4 WG603522-5 QC Sample: L1307016-27 Client ID: SB-23\_0-2

4-Methyl-2-pentanone	ND	22.2	13	60	Q	13	62	Q	70-130	2		30
1,2,3-Trichloropropane	ND	22.2	14	61	Q	13	62	Q	68-130	1		30
2-Hexanone	ND	22.2	15	66	Q	14	67	Q	70-130	2		30
Bromochloromethane	ND	22.2	20	88		19	89		70-130	3		30
2,2-Dichloropropane	ND	22.2	21	93		20	92		70-130	4		30
1,2-Dibromoethane	ND	22.2	16	71		15	71		70-130	3		30
1,3-Dichloropropane	ND	22.2	17	74		16	75		69-130	3		30
1,1,1,2-Tetrachloroethane	ND	22.2	17	78		17	78		70-130	4		30
Bromobenzene	ND	22.2	17	75		16	74		70-130	4		30
n-Butylbenzene	ND	22.2	17	78		15	70		70-130	14		30
sec-Butylbenzene	ND	22.2	18	83		16	77		70-130	11		30
tert-Butylbenzene	ND	22.2	19	86		18	83		70-130	8		30
o-Chlorotoluene	ND	22.2	19	84		18	82		70-130	6		30
p-Chlorotoluene	ND	22.2	17	77		16	75		70-130	7		30
1,2-Dibromo-3-chloropropane	ND	22.2	13	58	Q	12	55	Q	68-130	9		30
Hexachlorobutadiene	ND	22.2	14	64	Q	11	53	Q	67-130	21		30
Isopropylbenzene	ND	22.2	19	85		18	83		70-130	6		30
p-Isopropyltoluene	ND	22.2	18	82		17	77		70-130	9		30
Naphthalene	ND	22.2	12	54	Q	11	53	Q	70-130	5		30
Acrylonitrile	ND	22.2	15	67	Q	14	67	Q	70-130	3		30
n-Propylbenzene	ND	22.2	18	82		17	78		70-130	8		30



# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 27-30,32,34,38 QC Batch ID: WG603522-4 WG603522-5 QC Sample: L1307016-27 Client ID: SB-23\_0-2

1,2,3-Trichlorobenzene	ND	22.2	13	59	Q	12	55	Q	70-130	11		30
1,2,4-Trichlorobenzene	ND	22.2	14	63	Q	13	58	Q	70-130	11		30
1,3,5-Trimethylbenzene	ND	22.2	18	82		17	81		70-130	6		30
1,2,4-Trimethylbenzene	ND	22.2	18	82		17	79		70-130	7		30
1,4-Dioxane	ND	1110	870	78		830	77		65-136	5		30
1,4-Diethylbenzene	ND	22.2	17	78		16	73		70-130	10		30
4-Ethyltoluene	ND	22.2	18	82		17	79		70-130	7		30
1,2,4,5-Tetramethylbenzene	ND	22.2	17	75		15	71		70-130	9		30
Ethyl ether	ND	22.2	17	77		17	78		67-130	2		30
trans-1,4-Dichloro-2-butene	ND	22.2	11	50	Q	11	50	Q	70-130	4		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	88		88		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	100		99		70-130
Toluene-d8	97		97		70-130

# SEMIVOLATILES

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-01  
**Client ID:** SB-12\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 14:35  
**Analyst:** RC  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 15:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	400		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	170		ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-01

Date Collected: 04/18/13 15:40

Client ID: SB-12\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	160		ug/kg	150	46.	1
Benzo(b)fluoranthene	200		ug/kg	110	38.	1
Benzo(k)fluoranthene	83	J	ug/kg	110	36.	1
Chrysene	180		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	42	J	ug/kg	110	32.	1
Benzo(ghi)perylene	110	J	ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	230		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	120	J	ug/kg	150	42.	1
Pyrene	370		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	41.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-01

Date Collected: 04/18/13 15:40

Client ID: SB-12\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	97		0-136
4-Terphenyl-d14	93		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-02  
**Client ID:** SB-12\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 15:02  
**Analyst:** RC  
**Percent Solids:** 89%

**Date Collected:** 04/18/13 15:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	61.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	61.	1
1,3-Dichlorobenzene	ND		ug/kg	180	58.	1
1,4-Dichlorobenzene	ND		ug/kg	180	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	130		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	49.	1
Naphthalene	ND		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	36.	1
Di-n-octylphthalate	ND		ug/kg	180	46.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1
Benzo(a)anthracene	50	J	ug/kg	110	36.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-02  
 Client ID: SB-12\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 15:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	46	J	ug/kg	110	37.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	50	J	ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	40	J	ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	38.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	170		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	41.	1
Pyrene	110		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	49.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	ND		ug/kg	180	62.	1
2-Methylnaphthalene	ND		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	180	54.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	890	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	55.	1
2-Methylphenol	ND		ug/kg	180	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	40.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-02

Date Collected: 04/18/13 15:50

Client ID: SB-12\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	83		0-136
4-Terphenyl-d14	83		18-120



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-03  
**Client ID:** SB-9\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 15:29  
**Analyst:** RC  
**Percent Solids:** 96%

**Date Collected:** 04/18/13 16:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	360		ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	57.	1
Hexachlorobenzene	ND		ug/kg	100	32.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	48.	1
2-Chloronaphthalene	ND		ug/kg	170	56.	1
1,2-Dichlorobenzene	ND		ug/kg	170	57.	1
1,3-Dichlorobenzene	ND		ug/kg	170	54.	1
1,4-Dichlorobenzene	ND		ug/kg	170	52.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	37.	1
2,6-Dinitrotoluene	ND		ug/kg	170	44.	1
Fluoranthene	3200		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	52.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	61.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	52.	1
Hexachlorobutadiene	ND		ug/kg	170	49.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	31.	1
Isophorone	ND		ug/kg	160	46.	1
Naphthalene	750		ug/kg	170	57.	1
Nitrobenzene	ND		ug/kg	160	41.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	36.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	51.	1
Bis(2-Ethylhexyl)phthalate	150	J	ug/kg	170	45.	1
Butyl benzyl phthalate	ND		ug/kg	170	34.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	42.	1
Diethyl phthalate	ND		ug/kg	170	36.	1
Dimethyl phthalate	ND		ug/kg	170	44.	1
Benzo(a)anthracene	1400		ug/kg	100	34.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-03  
 Client ID: SB-9\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:10  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	1300		ug/kg	140	42.	1
Benzo(b)fluoranthene	1700		ug/kg	100	35.	1
Benzo(k)fluoranthene	670		ug/kg	100	33.	1
Chrysene	1400		ug/kg	100	34.	1
Acenaphthylene	ND		ug/kg	140	32.	1
Anthracene	350		ug/kg	100	29.	1
Benzo(ghi)perylene	800		ug/kg	140	36.	1
Fluorene	310		ug/kg	170	50.	1
Phenanthrene	2500		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	200		ug/kg	100	33.	1
Indeno(1,2,3-cd)Pyrene	890		ug/kg	140	38.	1
Pyrene	2800		ug/kg	100	34.	1
Biphenyl	77	J	ug/kg	390	57.	1
4-Chloroaniline	ND		ug/kg	170	46.	1
2-Nitroaniline	ND		ug/kg	170	49.	1
3-Nitroaniline	ND		ug/kg	170	48.	1
4-Nitroaniline	ND		ug/kg	170	47.	1
Dibenzofuran	320		ug/kg	170	58.	1
2-Methylnaphthalene	180	J	ug/kg	210	55.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	54.	1
Acetophenone	ND		ug/kg	170	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
P-Chloro-M-Cresol	ND		ug/kg	170	50.	1
2-Chlorophenol	ND		ug/kg	170	52.	1
2,4-Dichlorophenol	ND		ug/kg	160	56.	1
2,4-Dimethylphenol	ND		ug/kg	170	51.	1
2-Nitrophenol	ND		ug/kg	370	54.	1
4-Nitrophenol	ND		ug/kg	240	56.	1
2,4-Dinitrophenol	ND		ug/kg	830	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	63.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	51.	1
2-Methylphenol	ND		ug/kg	170	56.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	57.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	56.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	190		ug/kg	170	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-03

Date Collected: 04/18/13 16:10

Client ID: SB-9\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	119		0-136
4-Terphenyl-d14	117		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-04  
**Client ID:** SB-9\_3-5  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 15:56  
**Analyst:** RC  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	64.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	63.	1
1,2-Dichlorobenzene	ND		ug/kg	190	64.	1
1,3-Dichlorobenzene	ND		ug/kg	190	61.	1
1,4-Dichlorobenzene	ND		ug/kg	190	59.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	42.	1
2,6-Dinitrotoluene	ND		ug/kg	190	50.	1
Fluoranthene	380		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	45.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	59.	1
Hexachlorobutadiene	ND		ug/kg	190	55.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	120	1
Hexachloroethane	ND		ug/kg	160	35.	1
Isophorone	ND		ug/kg	170	52.	1
Naphthalene	ND		ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	41.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	58.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	51.	1
Butyl benzyl phthalate	ND		ug/kg	190	38.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	48.	1
Diethyl phthalate	ND		ug/kg	190	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1
Benzo(a)anthracene	150		ug/kg	120	38.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-04

Date Collected: 04/18/13 16:20

Client ID: SB-9\_3-5

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	150	J	ug/kg	160	47.	1
Benzo(b)fluoranthene	180		ug/kg	120	39.	1
Benzo(k)fluoranthene	71	J	ug/kg	120	37.	1
Chrysene	180		ug/kg	120	38.	1
Acenaphthylene	ND		ug/kg	160	36.	1
Anthracene	57	J	ug/kg	120	32.	1
Benzo(ghi)perylene	78	J	ug/kg	160	40.	1
Fluorene	ND		ug/kg	190	56.	1
Phenanthrene	310		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	94	J	ug/kg	160	43.	1
Pyrene	340		ug/kg	120	38.	1
Biphenyl	ND		ug/kg	440	64.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	55.	1
3-Nitroaniline	ND		ug/kg	190	54.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	65.	1
2-Methylnaphthalene	ND		ug/kg	230	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	60.	1
Acetophenone	ND		ug/kg	190	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	63.	1
2,4-Dimethylphenol	ND		ug/kg	190	58.	1
2-Nitrophenol	ND		ug/kg	420	60.	1
4-Nitrophenol	ND		ug/kg	270	63.	1
2,4-Dinitrophenol	ND		ug/kg	930	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	71.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	64.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	63.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	60.	1
Carbazole	ND		ug/kg	190	42.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-04

Date Collected: 04/18/13 16:20

Client ID: SB-9\_3-5

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	109		0-136
4-Terphenyl-d14	104		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-05  
**Client ID:** SB-13\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 16:23  
**Analyst:** RC  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	310	79.	2
1,2,4-Trichlorobenzene	ND		ug/kg	380	130	2
Hexachlorobenzene	ND		ug/kg	230	72.	2
Bis(2-chloroethyl)ether	ND		ug/kg	350	110	2
2-Chloronaphthalene	ND		ug/kg	380	120	2
1,2-Dichlorobenzene	ND		ug/kg	380	130	2
1,3-Dichlorobenzene	ND		ug/kg	380	120	2
1,4-Dichlorobenzene	ND		ug/kg	380	120	2
3,3'-Dichlorobenzidine	ND		ug/kg	380	100	2
2,4-Dinitrotoluene	ND		ug/kg	380	83.	2
2,6-Dinitrotoluene	ND		ug/kg	380	99.	2
Fluoranthene	1100		ug/kg	230	71.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	380	120	2
4-Bromophenyl phenyl ether	ND		ug/kg	380	89.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	460	140	2
Bis(2-chloroethoxy)methane	ND		ug/kg	420	120	2
Hexachlorobutadiene	ND		ug/kg	380	110	2
Hexachlorocyclopentadiene	ND		ug/kg	1100	250	2
Hexachloroethane	ND		ug/kg	310	70.	2
Isophorone	ND		ug/kg	350	100	2
Naphthalene	240	J	ug/kg	380	130	2
Nitrobenzene	ND		ug/kg	350	92.	2
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	310	81.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	380	110	2
Bis(2-Ethylhexyl)phthalate	4100		ug/kg	380	100	2
Butyl benzyl phthalate	29000	E	ug/kg	380	75.	2
Di-n-butylphthalate	ND		ug/kg	380	74.	2
Di-n-octylphthalate	ND		ug/kg	380	95.	2
Diethyl phthalate	ND		ug/kg	380	81.	2
Dimethyl phthalate	ND		ug/kg	380	98.	2
Benzo(a)anthracene	380		ug/kg	230	75.	2

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-05  
 Client ID: SB-13\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:30  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	360		ug/kg	310	94.	2
Benzo(b)fluoranthene	480		ug/kg	230	78.	2
Benzo(k)fluoranthene	170	J	ug/kg	230	74.	2
Chrysene	420		ug/kg	230	76.	2
Acenaphthylene	ND		ug/kg	310	72.	2
Anthracene	160	J	ug/kg	230	64.	2
Benzo(ghi)perylene	240	J	ug/kg	310	80.	2
Fluorene	ND		ug/kg	380	110	2
Phenanthrene	780		ug/kg	230	75.	2
Dibenzo(a,h)anthracene	ND		ug/kg	230	74.	2
Indeno(1,2,3-cd)Pyrene	250	J	ug/kg	310	86.	2
Pyrene	970		ug/kg	230	75.	2
Biphenyl	ND		ug/kg	880	130	2
4-Chloroaniline	ND		ug/kg	380	100	2
2-Nitroaniline	ND		ug/kg	380	110	2
3-Nitroaniline	ND		ug/kg	380	110	2
4-Nitroaniline	ND		ug/kg	380	100	2
Dibenzofuran	ND		ug/kg	380	130	2
2-Methylnaphthalene	320	J	ug/kg	460	120	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	380	120	2
Acetophenone	ND		ug/kg	380	120	2
2,4,6-Trichlorophenol	ND		ug/kg	230	73.	2
P-Chloro-M-Cresol	ND		ug/kg	380	110	2
2-Chlorophenol	ND		ug/kg	380	120	2
2,4-Dichlorophenol	ND		ug/kg	350	120	2
2,4-Dimethylphenol	ND		ug/kg	380	110	2
2-Nitrophenol	ND		ug/kg	830	120	2
4-Nitrophenol	ND		ug/kg	540	120	2
2,4-Dinitrophenol	ND		ug/kg	1800	530	2
4,6-Dinitro-o-cresol	ND		ug/kg	1000	140	2
Pentachlorophenol	ND		ug/kg	310	82.	2
Phenol	ND		ug/kg	380	110	2
2-Methylphenol	ND		ug/kg	380	120	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	550	130	2
2,4,5-Trichlorophenol	ND		ug/kg	380	120	2
Benzoic Acid	ND		ug/kg	1200	390	2
Benzyl Alcohol	ND		ug/kg	380	120	2
Carbazole	ND		ug/kg	380	83.	2



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-05

Date Collected: 04/18/13 16:30

Client ID: SB-13\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	73		0-136
4-Terphenyl-d14	80		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-05 D  
Client ID: SB-13\_1-3  
Sample Location: 514 W. 27TH ST. NYC  
Matrix: Soil  
Analytical Method: 1,8270D  
Analytical Date: 04/29/13 11:18  
Analyst: RC  
Percent Solids: 85%

Date Collected: 04/18/13 16:30  
Date Received: 04/19/13  
Field Prep: Not Specified  
Extraction Method: EPA 3546  
Extraction Date: 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Butyl benzyl phthalate	23000		ug/kg	770	150	2

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-06  
**Client ID:** SB-13\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 16:50  
**Analyst:** RC  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 16:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-06  
 Client ID: SB-13\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 16:35  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-06

Date Collected: 04/18/13 16:35

Client ID: SB-13\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	103		30-120
2,4,6-Tribromophenol	94		0-136
4-Terphenyl-d14	108		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-07      D  
**Client ID:** SB-18\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 17:17  
**Analyst:** RC  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:45  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2900		ug/kg	620	160	4
1,2,4-Trichlorobenzene	ND		ug/kg	770	250	4
Hexachlorobenzene	ND		ug/kg	460	140	4
Bis(2-chloroethyl)ether	ND		ug/kg	690	220	4
2-Chloronaphthalene	ND		ug/kg	770	250	4
1,2-Dichlorobenzene	ND		ug/kg	770	250	4
1,3-Dichlorobenzene	ND		ug/kg	770	240	4
1,4-Dichlorobenzene	ND		ug/kg	770	230	4
3,3'-Dichlorobenzidine	ND		ug/kg	770	200	4
2,4-Dinitrotoluene	ND		ug/kg	770	170	4
2,6-Dinitrotoluene	ND		ug/kg	770	200	4
Fluoranthene	26000		ug/kg	460	140	4
4-Chlorophenyl phenyl ether	ND		ug/kg	770	230	4
4-Bromophenyl phenyl ether	ND		ug/kg	770	180	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	920	270	4
Bis(2-chloroethoxy)methane	ND		ug/kg	830	230	4
Hexachlorobutadiene	ND		ug/kg	770	220	4
Hexachlorocyclopentadiene	ND		ug/kg	2200	490	4
Hexachloroethane	ND		ug/kg	620	140	4
Isophorone	ND		ug/kg	690	200	4
Naphthalene	2600		ug/kg	770	260	4
Nitrobenzene	ND		ug/kg	690	180	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	620	160	4
n-Nitrosodi-n-propylamine	ND		ug/kg	770	230	4
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	770	200	4
Butyl benzyl phthalate	ND		ug/kg	770	150	4
Di-n-butylphthalate	ND		ug/kg	770	150	4
Di-n-octylphthalate	ND		ug/kg	770	190	4
Diethyl phthalate	ND		ug/kg	770	160	4
Dimethyl phthalate	ND		ug/kg	770	200	4
Benzo(a)anthracene	11000		ug/kg	460	150	4

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-07 D

Date Collected: 04/18/13 16:45

Client ID: SB-18\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	9600		ug/kg	620	190	4
Benzo(b)fluoranthene	12000		ug/kg	460	160	4
Benzo(k)fluoranthene	4600		ug/kg	460	150	4
Chrysene	12000		ug/kg	460	150	4
Acenaphthylene	900		ug/kg	620	140	4
Anthracene	4300		ug/kg	460	130	4
Benzo(ghi)perylene	5800		ug/kg	620	160	4
Fluorene	2700		ug/kg	770	220	4
Phenanthrene	24000		ug/kg	460	150	4
Dibenzo(a,h)anthracene	1400		ug/kg	460	150	4
Indeno(1,2,3-cd)Pyrene	6300		ug/kg	620	170	4
Pyrene	22000		ug/kg	460	150	4
Biphenyl	290	J	ug/kg	1800	250	4
4-Chloroaniline	ND		ug/kg	770	200	4
2-Nitroaniline	ND		ug/kg	770	220	4
3-Nitroaniline	ND		ug/kg	770	210	4
4-Nitroaniline	ND		ug/kg	770	210	4
Dibenzofuran	1700		ug/kg	770	260	4
2-Methylnaphthalene	1200		ug/kg	920	250	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	770	240	4
Acetophenone	ND		ug/kg	770	240	4
2,4,6-Trichlorophenol	ND		ug/kg	460	140	4
P-Chloro-M-Cresol	ND		ug/kg	770	220	4
2-Chlorophenol	ND		ug/kg	770	230	4
2,4-Dichlorophenol	ND		ug/kg	690	250	4
2,4-Dimethylphenol	ND		ug/kg	770	230	4
2-Nitrophenol	ND		ug/kg	1700	240	4
4-Nitrophenol	ND		ug/kg	1100	250	4
2,4-Dinitrophenol	ND		ug/kg	3700	1000	4
4,6-Dinitro-o-cresol	ND		ug/kg	2000	280	4
Pentachlorophenol	ND		ug/kg	620	160	4
Phenol	ND		ug/kg	770	230	4
2-Methylphenol	ND		ug/kg	770	250	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1100	250	4
2,4,5-Trichlorophenol	ND		ug/kg	770	250	4
Benzoic Acid	ND		ug/kg	2500	780	4
Benzyl Alcohol	ND		ug/kg	770	240	4
Carbazole	2300		ug/kg	770	160	4

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-07 D

Date Collected: 04/18/13 16:45

Client ID: SB-18\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	80		0-136
4-Terphenyl-d14	90		18-120



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-08  
**Client ID:** SB-18\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 17:43  
**Analyst:** RC  
**Percent Solids:** 87%

**Date Collected:** 04/18/13 16:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	89	J	ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	87	J	ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	1500		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	670		ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-08

Date Collected: 04/18/13 16:50

Client ID: SB-18\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	590		ug/kg	150	46.	1
Benzo(b)fluoranthene	730		ug/kg	110	38.	1
Benzo(k)fluoranthene	250		ug/kg	110	36.	1
Chrysene	730		ug/kg	110	37.	1
Acenaphthylene	52	J	ug/kg	150	35.	1
Anthracene	240		ug/kg	110	31.	1
Benzo(ghi)perylene	370		ug/kg	150	39.	1
Fluorene	90	J	ug/kg	190	54.	1
Phenanthrene	1200		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	90	J	ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	380		ug/kg	150	42.	1
Pyrene	1600		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	100	J	ug/kg	190	40.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-08

Date Collected: 04/18/13 16:50

Client ID: SB-18\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	120		0-136
4-Terphenyl-d14	111		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-09  
**Client ID:** SB-8\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 18:10  
**Analyst:** RC  
**Percent Solids:** 79%

**Date Collected:** 04/18/13 17:05  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	43.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	68.	1
Hexachlorobenzene	ND		ug/kg	120	39.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	58.	1
2-Chloronaphthalene	ND		ug/kg	210	68.	1
1,2-Dichlorobenzene	ND		ug/kg	210	68.	1
1,3-Dichlorobenzene	ND		ug/kg	210	66.	1
1,4-Dichlorobenzene	ND		ug/kg	210	63.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	45.	1
2,6-Dinitrotoluene	ND		ug/kg	210	53.	1
Fluoranthene	1200		ug/kg	120	38.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	63.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	48.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	73.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	63.	1
Hexachlorobutadiene	ND		ug/kg	210	59.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	130	1
Hexachloroethane	ND		ug/kg	170	38.	1
Isophorone	ND		ug/kg	190	55.	1
Naphthalene	ND		ug/kg	210	69.	1
Nitrobenzene	ND		ug/kg	190	50.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	170	44.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	62.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	210	54.	1
Butyl benzyl phthalate	ND		ug/kg	210	41.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	51.	1
Diethyl phthalate	ND		ug/kg	210	44.	1
Dimethyl phthalate	ND		ug/kg	210	53.	1
Benzo(a)anthracene	500		ug/kg	120	41.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-09

Date Collected: 04/18/13 17:05

Client ID: SB-8\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	430		ug/kg	170	51.	1
Benzo(b)fluoranthene	530		ug/kg	120	42.	1
Benzo(k)fluoranthene	190		ug/kg	120	40.	1
Chrysene	500		ug/kg	120	41.	1
Acenaphthylene	56	J	ug/kg	170	39.	1
Anthracene	170		ug/kg	120	35.	1
Benzo(ghi)perylene	250		ug/kg	170	43.	1
Fluorene	ND		ug/kg	210	60.	1
Phenanthrene	720		ug/kg	120	41.	1
Dibenzo(a,h)anthracene	59	J	ug/kg	120	40.	1
Indeno(1,2,3-cd)Pyrene	270		ug/kg	170	46.	1
Pyrene	1000		ug/kg	120	40.	1
Biphenyl	ND		ug/kg	470	69.	1
4-Chloroaniline	ND		ug/kg	210	55.	1
2-Nitroaniline	ND		ug/kg	210	59.	1
3-Nitroaniline	ND		ug/kg	210	57.	1
4-Nitroaniline	ND		ug/kg	210	56.	1
Dibenzofuran	ND		ug/kg	210	69.	1
2-Methylnaphthalene	ND		ug/kg	250	66.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	64.	1
Acetophenone	ND		ug/kg	210	64.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
P-Chloro-M-Cresol	ND		ug/kg	210	60.	1
2-Chlorophenol	ND		ug/kg	210	63.	1
2,4-Dichlorophenol	ND		ug/kg	190	67.	1
2,4-Dimethylphenol	ND		ug/kg	210	62.	1
2-Nitrophenol	ND		ug/kg	450	65.	1
4-Nitrophenol	ND		ug/kg	290	67.	1
2,4-Dinitrophenol	ND		ug/kg	1000	280	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	76.	1
Pentachlorophenol	ND		ug/kg	170	44.	1
Phenol	ND		ug/kg	210	62.	1
2-Methylphenol	ND		ug/kg	210	67.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	68.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	67.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	63	J	ug/kg	210	45.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-09

Date Collected: 04/18/13 17:05

Client ID: SB-8\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	108		0-136
4-Terphenyl-d14	95		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-10  
**Client ID:** SB-8\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 18:37  
**Analyst:** RC  
**Percent Solids:** 90%

**Date Collected:** 04/18/13 17:15  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	1
1,3-Dichlorobenzene	ND		ug/kg	180	58.	1
1,4-Dichlorobenzene	ND		ug/kg	180	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	33.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	ND		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1
Benzo(a)anthracene	ND		ug/kg	110	36.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-10  
 Client ID: SB-8\_8-10  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 17:15  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	37.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	34.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	38.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	ND		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	41.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	ND		ug/kg	180	61.	1
2-Methylnaphthalene	ND		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	160	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	57.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	40.	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-10

Date Collected: 04/18/13 17:15

Client ID: SB-8\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	86		0-136
4-Terphenyl-d14	85		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-11  
**Client ID:** SB-28\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 19:03  
**Analyst:** RC  
**Percent Solids:** 75%

**Date Collected:** 04/18/13 08:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	44.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	70.	1
Hexachlorobenzene	ND		ug/kg	130	40.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	60.	1
2-Chloronaphthalene	ND		ug/kg	220	70.	1
1,2-Dichlorobenzene	ND		ug/kg	220	70.	1
1,3-Dichlorobenzene	ND		ug/kg	220	68.	1
1,4-Dichlorobenzene	ND		ug/kg	220	65.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	46.	1
2,6-Dinitrotoluene	ND		ug/kg	220	55.	1
Fluoranthene	400		ug/kg	130	39.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	65.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	49.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	76.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	65.	1
Hexachlorobutadiene	ND		ug/kg	220	61.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	140	1
Hexachloroethane	ND		ug/kg	170	39.	1
Isophorone	ND		ug/kg	190	57.	1
Naphthalene	ND		ug/kg	220	71.	1
Nitrobenzene	ND		ug/kg	190	51.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	170	45.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	64.	1
Bis(2-Ethylhexyl)phthalate	180	J	ug/kg	220	56.	1
Butyl benzyl phthalate	ND		ug/kg	220	42.	1
Di-n-butylphthalate	4800		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	53.	1
Diethyl phthalate	ND		ug/kg	220	45.	1
Dimethyl phthalate	ND		ug/kg	220	55.	1
Benzo(a)anthracene	230		ug/kg	130	42.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-11

Date Collected: 04/18/13 08:40

Client ID: SB-28\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	200		ug/kg	170	52.	1
Benzo(b)fluoranthene	270		ug/kg	130	43.	1
Benzo(k)fluoranthene	110	J	ug/kg	130	41.	1
Chrysene	230		ug/kg	130	42.	1
Acenaphthylene	ND		ug/kg	170	40.	1
Anthracene	54	J	ug/kg	130	36.	1
Benzo(ghi)perylene	140	J	ug/kg	170	45.	1
Fluorene	ND		ug/kg	220	62.	1
Phenanthrene	200		ug/kg	130	42.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	42.	1
Indeno(1,2,3-cd)Pyrene	140	J	ug/kg	170	48.	1
Pyrene	370		ug/kg	130	42.	1
Biphenyl	ND		ug/kg	490	71.	1
4-Chloroaniline	ND		ug/kg	220	57.	1
2-Nitroaniline	ND		ug/kg	220	61.	1
3-Nitroaniline	ND		ug/kg	220	59.	1
4-Nitroaniline	ND		ug/kg	220	58.	1
Dibenzofuran	ND		ug/kg	220	72.	1
2-Methylnaphthalene	ND		ug/kg	260	69.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	67.	1
Acetophenone	ND		ug/kg	220	67.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
P-Chloro-M-Cresol	ND		ug/kg	220	62.	1
2-Chlorophenol	ND		ug/kg	220	65.	1
2,4-Dichlorophenol	ND		ug/kg	190	70.	1
2,4-Dimethylphenol	ND		ug/kg	220	64.	1
2-Nitrophenol	ND		ug/kg	460	67.	1
4-Nitrophenol	ND		ug/kg	300	70.	1
2,4-Dinitrophenol	ND		ug/kg	1000	290	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	79.	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	220	64.	1
2-Methylphenol	ND		ug/kg	220	69.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	70.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	70.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	46.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-11

Date Collected: 04/18/13 08:40

Client ID: SB-28\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	67		0-136
4-Terphenyl-d14	75		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-12  
**Client ID:** SB-28\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 19:30  
**Analyst:** RC  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 08:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	61.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	40.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	270		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	36.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	120		ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-12  
 Client ID: SB-28\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 08:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	100	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	140		ug/kg	110	38.	1
Benzo(k)fluoranthene	55	J	ug/kg	110	36.	1
Chrysene	130		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	37	J	ug/kg	110	31.	1
Benzo(ghi)perylene	94	J	ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	200		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	97	J	ug/kg	150	42.	1
Pyrene	230		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	49.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	50.	1
Dibenzofuran	ND		ug/kg	190	62.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	55.	1
2-Methylphenol	ND		ug/kg	190	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-12

Date Collected: 04/18/13 08:50

Client ID: SB-28\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	95		0-136
4-Terphenyl-d14	84		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-13  
**Client ID:** SB-25\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 19:57  
**Analyst:** RC  
**Percent Solids:** 87%

**Date Collected:** 04/18/13 09:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	140	J	ug/kg	300	79.	2
1,2,4-Trichlorobenzene	ND		ug/kg	380	120	2
Hexachlorobenzene	ND		ug/kg	230	71.	2
Bis(2-chloroethyl)ether	ND		ug/kg	340	110	2
2-Chloronaphthalene	ND		ug/kg	380	120	2
1,2-Dichlorobenzene	ND		ug/kg	380	120	2
1,3-Dichlorobenzene	ND		ug/kg	380	120	2
1,4-Dichlorobenzene	ND		ug/kg	380	120	2
3,3'-Dichlorobenzidine	ND		ug/kg	380	100	2
2,4-Dinitrotoluene	ND		ug/kg	380	82.	2
2,6-Dinitrotoluene	ND		ug/kg	380	98.	2
Fluoranthene	ND		ug/kg	230	70.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	380	120	2
4-Bromophenyl phenyl ether	ND		ug/kg	380	88.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	460	130	2
Bis(2-chloroethoxy)methane	ND		ug/kg	410	120	2
Hexachlorobutadiene	ND		ug/kg	380	110	2
Hexachlorocyclopentadiene	ND		ug/kg	1100	240	2
Hexachloroethane	ND		ug/kg	300	70.	2
Isophorone	ND		ug/kg	340	100	2
Naphthalene	ND		ug/kg	380	130	2
Nitrobenzene	ND		ug/kg	340	91.	2
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	300	80.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	380	110	2
Bis(2-Ethylhexyl)phthalate	3100		ug/kg	380	100	2
Butyl benzyl phthalate	220	J	ug/kg	380	75.	2
Di-n-butylphthalate	ND		ug/kg	380	74.	2
Di-n-octylphthalate	ND		ug/kg	380	94.	2
Diethyl phthalate	ND		ug/kg	380	81.	2
Dimethyl phthalate	ND		ug/kg	380	97.	2
Benzo(a)anthracene	4000		ug/kg	230	75.	2



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-13  
 Client ID: SB-25\_1-3  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 09:20  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	3900		ug/kg	300	94.	2
Benzo(b)fluoranthene	5000		ug/kg	230	77.	2
Benzo(k)fluoranthene	1800		ug/kg	230	73.	2
Chrysene	3600		ug/kg	230	75.	2
Acenaphthylene	420		ug/kg	300	72.	2
Anthracene	820		ug/kg	230	64.	2
Benzo(ghi)perylene	2100		ug/kg	300	80.	2
Fluorene	220	J	ug/kg	380	110	2
Phenanthrene	2000		ug/kg	230	75.	2
Dibenzo(a,h)anthracene	540		ug/kg	230	74.	2
Indeno(1,2,3-cd)Pyrene	2500		ug/kg	300	85.	2
Pyrene	6500		ug/kg	230	74.	2
Biphenyl	ND		ug/kg	870	130	2
4-Chloroaniline	ND		ug/kg	380	100	2
2-Nitroaniline	ND		ug/kg	380	110	2
3-Nitroaniline	ND		ug/kg	380	100	2
4-Nitroaniline	ND		ug/kg	380	100	2
Dibenzofuran	ND		ug/kg	380	130	2
2-Methylnaphthalene	ND		ug/kg	460	120	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	380	120	2
Acetophenone	ND		ug/kg	380	120	2
2,4,6-Trichlorophenol	ND		ug/kg	230	72.	2
P-Chloro-M-Cresol	ND		ug/kg	380	110	2
2-Chlorophenol	ND		ug/kg	380	120	2
2,4-Dichlorophenol	ND		ug/kg	340	120	2
2,4-Dimethylphenol	ND		ug/kg	380	110	2
2-Nitrophenol	ND		ug/kg	830	120	2
4-Nitrophenol	ND		ug/kg	540	120	2
2,4-Dinitrophenol	ND		ug/kg	1800	520	2
4,6-Dinitro-o-cresol	ND		ug/kg	990	140	2
Pentachlorophenol	ND		ug/kg	300	82.	2
Phenol	ND		ug/kg	380	110	2
2-Methylphenol	ND		ug/kg	380	120	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	550	120	2
2,4,5-Trichlorophenol	ND		ug/kg	380	120	2
Benzoic Acid	ND		ug/kg	1200	390	2
Benzyl Alcohol	ND		ug/kg	380	120	2
Carbazole	290	J	ug/kg	380	82.	2

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-13

Date Collected: 04/18/13 09:20

Client ID: SB-25\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	99		0-136
4-Terphenyl-d14	84		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-14  
**Client ID:** SB-25\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 20:24  
**Analyst:** RC  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	ND		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-14

Date Collected: 04/18/13 09:30

Client ID: SB-25\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	ND		ug/kg	110	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	63.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	41.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-14

Date Collected: 04/18/13 09:30

Client ID: SB-25\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	97		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	108		0-136
4-Terphenyl-d14	89		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-15  
**Client ID:** SB-25\_7-9\_FIELD-DUP  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 20:51  
**Analyst:** RC  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-15

Date Collected: 04/18/13 09:30

Client ID: SB-25\_7-9\_FIELD-DUP

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-15

Date Collected: 04/18/13 09:30

Client ID: SB-25\_7-9\_FIELD-DUP

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	82		0-136
4-Terphenyl-d14	83		18-120



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-16      D2  
**Client ID:** SB-27\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/26/13 11:49  
**Analyst:** RC  
**Percent Solids:** 83%

**Date Collected:** 04/18/13 14:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	940000		ug/kg	16000	5000	140
Benzo(a)anthracene	360000		ug/kg	16000	5400	140
Benzo(b)fluoranthene	400000		ug/kg	16000	5500	140
Phenanthrene	960000		ug/kg	16000	5400	140
Pyrene	850000		ug/kg	16000	5300	140

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-16      D  
**Client ID:** SB-27\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/24/13 01:05  
**Analyst:** RC  
**Percent Solids:** 83%

**Date Collected:** 04/18/13 14:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	97000		ug/kg	5500	1400	35
1,2,4-Trichlorobenzene	ND		ug/kg	6800	2200	35
Hexachlorobenzene	ND		ug/kg	4100	1300	35
Bis(2-chloroethyl)ether	ND		ug/kg	6200	1900	35
2-Chloronaphthalene	ND		ug/kg	6800	2200	35
1,2-Dichlorobenzene	ND		ug/kg	6800	2200	35
1,3-Dichlorobenzene	ND		ug/kg	6800	2200	35
1,4-Dichlorobenzene	ND		ug/kg	6800	2100	35
3,3'-Dichlorobenzidine	ND		ug/kg	6800	1800	35
2,4-Dinitrotoluene	ND		ug/kg	6800	1500	35
2,6-Dinitrotoluene	ND		ug/kg	6800	1800	35
Fluoranthene	320000	E	ug/kg	4100	1200	35
4-Chlorophenyl phenyl ether	ND		ug/kg	6800	2100	35
4-Bromophenyl phenyl ether	ND		ug/kg	6800	1600	35
Bis(2-chloroisopropyl)ether	ND		ug/kg	8200	2400	35
Bis(2-chloroethoxy)methane	ND		ug/kg	7400	2100	35
Hexachlorobutadiene	ND		ug/kg	6800	1900	35
Hexachlorocyclopentadiene	ND		ug/kg	20000	4400	35
Hexachloroethane	ND		ug/kg	5500	1200	35
Isophorone	ND		ug/kg	6200	1800	35
Naphthalene	120000		ug/kg	6800	2300	35
Nitrobenzene	ND		ug/kg	6200	1600	35
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	5500	1400	35
n-Nitrosodi-n-propylamine	ND		ug/kg	6800	2000	35
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	6800	1800	35
Butyl benzyl phthalate	ND		ug/kg	6800	1300	35
Di-n-butylphthalate	ND		ug/kg	6800	1300	35
Di-n-octylphthalate	ND		ug/kg	6800	1700	35
Diethyl phthalate	ND		ug/kg	6800	1400	35
Dimethyl phthalate	ND		ug/kg	6800	1700	35
Benzo(a)anthracene	300000	E	ug/kg	4100	1300	35

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-16 D

Date Collected: 04/18/13 14:40

Client ID: SB-27\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	230000		ug/kg	5500	1700	35
Benzo(b)fluoranthene	300000	E	ug/kg	4100	1400	35
Benzo(k)fluoranthene	110000		ug/kg	4100	1300	35
Chrysene	250000		ug/kg	4100	1300	35
Acenaphthylene	55000		ug/kg	5500	1300	35
Anthracene	200000		ug/kg	4100	1100	35
Benzo(ghi)perylene	160000		ug/kg	5500	1400	35
Fluorene	110000		ug/kg	6800	2000	35
Phenanthrene	360000	E	ug/kg	4100	1300	35
Dibenzo(a,h)anthracene	41000		ug/kg	4100	1300	35
Indeno(1,2,3-cd)Pyrene	130000		ug/kg	5500	1500	35
Pyrene	310000	E	ug/kg	4100	1300	35
Biphenyl	14000	J	ug/kg	16000	2300	35
4-Chloroaniline	ND		ug/kg	6800	1800	35
2-Nitroaniline	ND		ug/kg	6800	1900	35
3-Nitroaniline	ND		ug/kg	6800	1900	35
4-Nitroaniline	ND		ug/kg	6800	1800	35
Dibenzofuran	69000		ug/kg	6800	2300	35
2-Methylnaphthalene	51000		ug/kg	8200	2200	35
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	6800	2100	35
Acetophenone	ND		ug/kg	6800	2100	35
2,4,6-Trichlorophenol	ND		ug/kg	4100	1300	35
P-Chloro-M-Cresol	ND		ug/kg	6800	2000	35
2-Chlorophenol	ND		ug/kg	6800	2100	35
2,4-Dichlorophenol	ND		ug/kg	6200	2200	35
2,4-Dimethylphenol	2600	J	ug/kg	6800	2000	35
2-Nitrophenol	ND		ug/kg	15000	2100	35
4-Nitrophenol	ND		ug/kg	9600	2200	35
2,4-Dinitrophenol	ND		ug/kg	33000	9400	35
4,6-Dinitro-o-cresol	ND		ug/kg	18000	2500	35
Pentachlorophenol	ND		ug/kg	5500	1500	35
Phenol	2500	J	ug/kg	6800	2000	35
2-Methylphenol	ND		ug/kg	6800	2200	35
3-Methylphenol/4-Methylphenol	4700	J	ug/kg	9900	2200	35
2,4,5-Trichlorophenol	ND		ug/kg	6800	2200	35
Benzoic Acid	ND		ug/kg	22000	6900	35
Benzyl Alcohol	ND		ug/kg	6800	2100	35
Carbazole	73000		ug/kg	6800	1500	35

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-16 D

Date Collected: 04/18/13 14:40

Client ID: SB-27\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0		0-136
4-Terphenyl-d14	0	Q	18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-17  
**Client ID:** SB-27\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 21:17  
**Analyst:** RC  
**Percent Solids:** 90%

**Date Collected:** 04/18/13 14:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	37.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	59.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	59.	1
1,2-Dichlorobenzene	ND		ug/kg	180	59.	1
1,3-Dichlorobenzene	ND		ug/kg	180	57.	1
1,4-Dichlorobenzene	ND		ug/kg	180	55.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	46.	1
Fluoranthene	82	J	ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	ND		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	47.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	44.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1
Benzo(a)anthracene	ND		ug/kg	110	35.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-17  
 Client ID: SB-27\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 14:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	36.	1
Benzo(k)fluoranthene	ND		ug/kg	110	34.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	140	34.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	140	38.	1
Fluorene	ND		ug/kg	180	52.	1
Phenanthrene	92	J	ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	40.	1
Pyrene	68	J	ug/kg	110	35.	1
Biphenyl	ND		ug/kg	410	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	ND		ug/kg	180	60.	1
2-Methylnaphthalene	ND		ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	ND		ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	52.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	56.	1
4-Nitrophenol	ND		ug/kg	250	59.	1
2,4-Dinitrophenol	ND		ug/kg	870	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	66.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	58.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	59.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	39.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-17

Date Collected: 04/18/13 14:50

Client ID: SB-27\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	39		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	87		0-136
4-Terphenyl-d14	73		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-18  
**Client ID:** SB-10\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 21:44  
**Analyst:** RC  
**Percent Solids:** 89%

**Date Collected:** 04/18/13 15:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	1
1,3-Dichlorobenzene	ND		ug/kg	180	58.	1
1,4-Dichlorobenzene	ND		ug/kg	180	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	33.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	ND		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	36.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1
Benzo(a)anthracene	ND		ug/kg	110	36.	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-18

Date Collected: 04/18/13 15:10

Client ID: SB-10\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	37.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	34.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	38.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	ND		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	41.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	ND		ug/kg	180	61.	1
2-Methylnaphthalene	ND		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	160	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	57.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	40.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-18

Date Collected: 04/18/13 15:10

Client ID: SB-10\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	93		0-136
4-Terphenyl-d14	84		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-19  
**Client ID:** SB-10\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/24/13 01:32  
**Analyst:** RC  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 15:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2700		ug/kg	300	78.	2
1,2,4-Trichlorobenzene	ND		ug/kg	380	120	2
Hexachlorobenzene	ND		ug/kg	230	70.	2
Bis(2-chloroethyl)ether	ND		ug/kg	340	100	2
2-Chloronaphthalene	ND		ug/kg	380	120	2
1,2-Dichlorobenzene	ND		ug/kg	380	120	2
1,3-Dichlorobenzene	ND		ug/kg	380	120	2
1,4-Dichlorobenzene	ND		ug/kg	380	110	2
3,3'-Dichlorobenzidine	ND		ug/kg	380	100	2
2,4-Dinitrotoluene	ND		ug/kg	380	82.	2
2,6-Dinitrotoluene	ND		ug/kg	380	97.	2
Fluoranthene	12000		ug/kg	230	69.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	380	110	2
4-Bromophenyl phenyl ether	ND		ug/kg	380	87.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	450	130	2
Bis(2-chloroethoxy)methane	ND		ug/kg	410	110	2
Hexachlorobutadiene	ND		ug/kg	380	110	2
Hexachlorocyclopentadiene	ND		ug/kg	1100	240	2
Hexachloroethane	ND		ug/kg	300	69.	2
Isophorone	ND		ug/kg	340	100	2
Naphthalene	740		ug/kg	380	120	2
Nitrobenzene	ND		ug/kg	340	90.	2
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	300	79.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	380	110	2
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	380	99.	2
Butyl benzyl phthalate	13000		ug/kg	380	74.	2
Di-n-butylphthalate	ND		ug/kg	380	73.	2
Di-n-octylphthalate	ND		ug/kg	380	93.	2
Diethyl phthalate	ND		ug/kg	380	80.	2
Dimethyl phthalate	ND		ug/kg	380	96.	2
Benzo(a)anthracene	11000		ug/kg	230	74.	2

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-19  
 Client ID: SB-10\_8-10  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 15:20  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	7000		ug/kg	300	92.	2
Benzo(b)fluoranthene	10000		ug/kg	230	76.	2
Benzo(k)fluoranthene	3600		ug/kg	230	72.	2
Chrysene	10000		ug/kg	230	74.	2
Acenaphthylene	130	J	ug/kg	300	71.	2
Anthracene	5600		ug/kg	230	63.	2
Benzo(ghi)perylene	3200		ug/kg	300	78.	2
Fluorene	2300		ug/kg	380	110	2
Phenanthrene	12000		ug/kg	230	74.	2
Dibenzo(a,h)anthracene	1000		ug/kg	230	73.	2
Indeno(1,2,3-cd)Pyrene	2800		ug/kg	300	84.	2
Pyrene	12000		ug/kg	230	73.	2
Biphenyl	180	J	ug/kg	860	120	2
4-Chloroaniline	ND		ug/kg	380	100	2
2-Nitroaniline	ND		ug/kg	380	110	2
3-Nitroaniline	ND		ug/kg	380	100	2
4-Nitroaniline	ND		ug/kg	380	100	2
Dibenzofuran	1100		ug/kg	380	130	2
2-Methylnaphthalene	460		ug/kg	450	120	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	380	120	2
Acetophenone	ND		ug/kg	380	120	2
2,4,6-Trichlorophenol	ND		ug/kg	230	71.	2
P-Chloro-M-Cresol	ND		ug/kg	380	110	2
2-Chlorophenol	ND		ug/kg	380	110	2
2,4-Dichlorophenol	ND		ug/kg	340	120	2
2,4-Dimethylphenol	ND		ug/kg	380	110	2
2-Nitrophenol	ND		ug/kg	820	120	2
4-Nitrophenol	ND		ug/kg	530	120	2
2,4-Dinitrophenol	ND		ug/kg	1800	520	2
4,6-Dinitro-o-cresol	ND		ug/kg	980	140	2
Pentachlorophenol	ND		ug/kg	300	81.	2
Phenol	ND		ug/kg	380	110	2
2-Methylphenol	ND		ug/kg	380	120	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	540	120	2
2,4,5-Trichlorophenol	ND		ug/kg	380	120	2
Benzoic Acid	420	J	ug/kg	1200	380	2
Benzyl Alcohol	ND		ug/kg	380	120	2
Carbazole	2100		ug/kg	380	81.	2

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-19

Date Collected: 04/18/13 15:20

Client ID: SB-10\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	11	Q	25-120
Phenol-d6	42		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	4		0-136
4-Terphenyl-d14	77		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-20      D  
**Client ID:** SB-15\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/24/13 02:00  
**Analyst:** RC  
**Percent Solids:** 93%

**Date Collected:** 04/19/13 08:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	840	220	6
1,2,4-Trichlorobenzene	ND		ug/kg	1000	340	6
Hexachlorobenzene	ND		ug/kg	630	200	6
Bis(2-chloroethyl)ether	ND		ug/kg	950	300	6
2-Chloronaphthalene	ND		ug/kg	1000	340	6
1,2-Dichlorobenzene	ND		ug/kg	1000	350	6
1,3-Dichlorobenzene	ND		ug/kg	1000	330	6
1,4-Dichlorobenzene	ND		ug/kg	1000	320	6
3,3'-Dichlorobenzidine	ND		ug/kg	1000	280	6
2,4-Dinitrotoluene	ND		ug/kg	1000	230	6
2,6-Dinitrotoluene	ND		ug/kg	1000	270	6
Fluoranthene	650		ug/kg	630	190	6
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	320	6
4-Bromophenyl phenyl ether	ND		ug/kg	1000	240	6
Bis(2-chloroisopropyl)ether	ND		ug/kg	1300	370	6
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	320	6
Hexachlorobutadiene	ND		ug/kg	1000	300	6
Hexachlorocyclopentadiene	ND		ug/kg	3000	680	6
Hexachloroethane	ND		ug/kg	840	190	6
Isophorone	ND		ug/kg	950	280	6
Naphthalene	ND		ug/kg	1000	350	6
Nitrobenzene	ND		ug/kg	950	250	6
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	840	220	6
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	310	6
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1000	280	6
Butyl benzyl phthalate	ND		ug/kg	1000	210	6
Di-n-butylphthalate	ND		ug/kg	1000	200	6
Di-n-octylphthalate	ND		ug/kg	1000	260	6
Diethyl phthalate	ND		ug/kg	1000	220	6
Dimethyl phthalate	ND		ug/kg	1000	270	6
Benzo(a)anthracene	400	J	ug/kg	630	210	6

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-20 D

Date Collected: 04/19/13 08:50

Client ID: SB-15\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	420	J	ug/kg	840	260	6
Benzo(b)fluoranthene	600	J	ug/kg	630	210	6
Benzo(k)fluoranthene	ND		ug/kg	630	200	6
Chrysene	450	J	ug/kg	630	210	6
Acenaphthylene	ND		ug/kg	840	200	6
Anthracene	ND		ug/kg	630	180	6
Benzo(ghi)perylene	350	J	ug/kg	840	220	6
Fluorene	ND		ug/kg	1000	300	6
Phenanthrene	390	J	ug/kg	630	210	6
Dibenzo(a,h)anthracene	ND		ug/kg	630	200	6
Indeno(1,2,3-cd)Pyrene	300	J	ug/kg	840	230	6
Pyrene	570	J	ug/kg	630	200	6
Biphenyl	ND		ug/kg	2400	350	6
4-Chloroaniline	ND		ug/kg	1000	280	6
2-Nitroaniline	ND		ug/kg	1000	300	6
3-Nitroaniline	ND		ug/kg	1000	290	6
4-Nitroaniline	ND		ug/kg	1000	280	6
Dibenzofuran	ND		ug/kg	1000	350	6
2-Methylnaphthalene	ND		ug/kg	1300	340	6
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	330	6
Acetophenone	ND		ug/kg	1000	330	6
2,4,6-Trichlorophenol	ND		ug/kg	630	200	6
P-Chloro-M-Cresol	ND		ug/kg	1000	300	6
2-Chlorophenol	ND		ug/kg	1000	320	6
2,4-Dichlorophenol	ND		ug/kg	950	340	6
2,4-Dimethylphenol	ND		ug/kg	1000	310	6
2-Nitrophenol	ND		ug/kg	2300	330	6
4-Nitrophenol	ND		ug/kg	1500	340	6
2,4-Dinitrophenol	ND		ug/kg	5100	1400	6
4,6-Dinitro-o-cresol	ND		ug/kg	2700	380	6
Pentachlorophenol	ND		ug/kg	840	220	6
Phenol	ND		ug/kg	1000	310	6
2-Methylphenol	ND		ug/kg	1000	340	6
3-Methylphenol/4-Methylphenol	ND		ug/kg	1500	340	6
2,4,5-Trichlorophenol	ND		ug/kg	1000	340	6
Benzoic Acid	ND		ug/kg	3400	1100	6
Benzyl Alcohol	ND		ug/kg	1000	320	6
Carbazole	ND		ug/kg	1000	230	6

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-20 D

Date Collected: 04/19/13 08:50

Client ID: SB-15\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	75		0-136
4-Terphenyl-d14	81		18-120



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-21  
**Client ID:** SB-15\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 13:51  
**Analyst:** RC  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 09:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-21

Date Collected: 04/19/13 09:00

Client ID: SB-15\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	41.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-21

Date Collected: 04/19/13 09:00

Client ID: SB-15\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	82		0-136
4-Terphenyl-d14	92		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-22 D2  
Client ID: SB-16\_1-3  
Sample Location: 514 W. 27TH ST. NYC  
Matrix: Soil  
Analytical Method: 1,8270D  
Analytical Date: 04/25/13 20:46  
Analyst: RC  
Percent Solids: 76%

Date Collected: 04/19/13 09:30  
Date Received: 04/19/13  
Field Prep: Not Specified  
Extraction Method: EPA 3546  
Extraction Date: 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	510000		ug/kg	9000	2800	70
Phenanthrene	510000		ug/kg	9000	2900	70
Pyrene	460000		ug/kg	9000	2900	70

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-22      D  
**Client ID:** SB-16\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 14:16  
**Analyst:** RC  
**Percent Solids:** 76%

**Date Collected:** 04/19/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	41000		ug/kg	6000	1500	35
1,2,4-Trichlorobenzene	ND		ug/kg	7500	2400	35
Hexachlorobenzene	ND		ug/kg	4500	1400	35
Bis(2-chloroethyl)ether	ND		ug/kg	6800	2100	35
2-Chloronaphthalene	ND		ug/kg	7500	2400	35
1,2-Dichlorobenzene	ND		ug/kg	7500	2500	35
1,3-Dichlorobenzene	ND		ug/kg	7500	2400	35
1,4-Dichlorobenzene	ND		ug/kg	7500	2300	35
3,3'-Dichlorobenzidine	ND		ug/kg	7500	2000	35
2,4-Dinitrotoluene	ND		ug/kg	7500	1600	35
2,6-Dinitrotoluene	ND		ug/kg	7500	1900	35
Fluoranthene	350000	E	ug/kg	4500	1400	35
4-Chlorophenyl phenyl ether	ND		ug/kg	7500	2300	35
4-Bromophenyl phenyl ether	ND		ug/kg	7500	1700	35
Bis(2-chloroisopropyl)ether	ND		ug/kg	9000	2600	35
Bis(2-chloroethoxy)methane	ND		ug/kg	8100	2300	35
Hexachlorobutadiene	ND		ug/kg	7500	2100	35
Hexachlorocyclopentadiene	ND		ug/kg	22000	4800	35
Hexachloroethane	ND		ug/kg	6000	1400	35
Isophorone	ND		ug/kg	6800	2000	35
Naphthalene	69000		ug/kg	7500	2500	35
Nitrobenzene	ND		ug/kg	6800	1800	35
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	6000	1600	35
n-Nitrosodi-n-propylamine	ND		ug/kg	7500	2200	35
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	7500	2000	35
Butyl benzyl phthalate	ND		ug/kg	7500	1500	35
Di-n-butylphthalate	ND		ug/kg	7500	1400	35
Di-n-octylphthalate	ND		ug/kg	7500	1800	35
Diethyl phthalate	ND		ug/kg	7500	1600	35
Dimethyl phthalate	ND		ug/kg	7500	1900	35
Benzo(a)anthracene	220000		ug/kg	4500	1500	35

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-22 D

Date Collected: 04/19/13 09:30

Client ID: SB-16\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	170000		ug/kg	6000	1800	35
Benzo(b)fluoranthene	240000		ug/kg	4500	1500	35
Benzo(k)fluoranthene	93000		ug/kg	4500	1400	35
Chrysene	190000		ug/kg	4500	1500	35
Acenaphthylene	120000		ug/kg	6000	1400	35
Anthracene	180000		ug/kg	4500	1200	35
Benzo(ghi)perylene	100000		ug/kg	6000	1600	35
Fluorene	130000		ug/kg	7500	2200	35
Phenanthrene	330000	E	ug/kg	4500	1500	35
Dibenzo(a,h)anthracene	26000		ug/kg	4500	1400	35
Indeno(1,2,3-cd)Pyrene	92000		ug/kg	6000	1700	35
Pyrene	330000	E	ug/kg	4500	1400	35
Biphenyl	14000	J	ug/kg	17000	2500	35
4-Chloroaniline	ND		ug/kg	7500	2000	35
2-Nitroaniline	ND		ug/kg	7500	2100	35
3-Nitroaniline	ND		ug/kg	7500	2100	35
4-Nitroaniline	ND		ug/kg	7500	2000	35
Dibenzofuran	75000		ug/kg	7500	2500	35
2-Methylnaphthalene	39000		ug/kg	9000	2400	35
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	7500	2300	35
Acetophenone	ND		ug/kg	7500	2300	35
2,4,6-Trichlorophenol	ND		ug/kg	4500	1400	35
P-Chloro-M-Cresol	ND		ug/kg	7500	2200	35
2-Chlorophenol	ND		ug/kg	7500	2300	35
2,4-Dichlorophenol	ND		ug/kg	6800	2400	35
2,4-Dimethylphenol	ND		ug/kg	7500	2200	35
2-Nitrophenol	ND		ug/kg	16000	2300	35
4-Nitrophenol	ND		ug/kg	10000	2400	35
2,4-Dinitrophenol	ND		ug/kg	36000	10000	35
4,6-Dinitro-o-cresol	ND		ug/kg	20000	2700	35
Pentachlorophenol	ND		ug/kg	6000	1600	35
Phenol	2500	J	ug/kg	7500	2200	35
2-Methylphenol	ND		ug/kg	7500	2400	35
3-Methylphenol/4-Methylphenol	ND		ug/kg	11000	2500	35
2,4,5-Trichlorophenol	ND		ug/kg	7500	2400	35
Benzoic Acid	ND		ug/kg	24000	7600	35
Benzyl Alcohol	ND		ug/kg	7500	2300	35
Carbazole	59000		ug/kg	7500	1600	35

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-22 D

Date Collected: 04/19/13 09:30

Client ID: SB-16\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0		0-136
4-Terphenyl-d14	0	Q	18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-23  
**Client ID:** SB-16\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 14:40  
**Analyst:** RC  
**Percent Solids:** 88%

**Date Collected:** 04/19/13 09:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	590		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	61.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	61.	1
1,3-Dichlorobenzene	ND		ug/kg	180	58.	1
1,4-Dichlorobenzene	ND		ug/kg	180	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	48.	1
Fluoranthene	5500		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	49.	1
Naphthalene	1600		ug/kg	180	62.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	49.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	36.	1
Di-n-octylphthalate	ND		ug/kg	180	46.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1
Benzo(a)anthracene	2700		ug/kg	110	36.	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-23  
 Client ID: SB-16\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 09:40  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	2000		ug/kg	150	45.	1
Benzo(b)fluoranthene	2600		ug/kg	110	37.	1
Benzo(k)fluoranthene	930		ug/kg	110	35.	1
Chrysene	2600		ug/kg	110	36.	1
Acenaphthylene	720		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	1100		ug/kg	150	38.	1
Fluorene	1200		ug/kg	180	53.	1
Phenanthrene	5600		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	280		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	940		ug/kg	150	41.	1
Pyrene	5200		ug/kg	110	36.	1
Biphenyl	120	J	ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	49.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	610		ug/kg	180	62.	1
2-Methylnaphthalene	680		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	180	54.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	890	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	82	J	ug/kg	180	55.	1
2-Methylphenol	ND		ug/kg	180	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	790		ug/kg	180	40.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-23

Date Collected: 04/19/13 09:40

Client ID: SB-16\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	86		0-136
4-Terphenyl-d14	88		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-24  
**Client ID:** SB-16\_7-9-FIELD-DUP  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 15:05  
**Analyst:** RC  
**Percent Solids:** 92%

**Date Collected:** 04/19/13 09:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	150		ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	58.	1
Hexachlorobenzene	ND		ug/kg	100	33.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	49.	1
2-Chloronaphthalene	ND		ug/kg	180	57.	1
1,2-Dichlorobenzene	ND		ug/kg	180	58.	1
1,3-Dichlorobenzene	ND		ug/kg	180	56.	1
1,4-Dichlorobenzene	ND		ug/kg	180	54.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	38.	1
2,6-Dinitrotoluene	ND		ug/kg	180	45.	1
Fluoranthene	1900		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	54.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	62.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	53.	1
Hexachlorobutadiene	ND		ug/kg	180	50.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	47.	1
Naphthalene	320		ug/kg	180	58.	1
Nitrobenzene	ND		ug/kg	160	42.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	37.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	52.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	46.	1
Butyl benzyl phthalate	ND		ug/kg	180	34.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	43.	1
Diethyl phthalate	ND		ug/kg	180	37.	1
Dimethyl phthalate	ND		ug/kg	180	45.	1
Benzo(a)anthracene	890		ug/kg	100	34.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-24

Date Collected: 04/19/13 09:40

Client ID: SB-16\_7-9-FIELD-DUP

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	680		ug/kg	140	43.	1
Benzo(b)fluoranthene	800		ug/kg	100	36.	1
Benzo(k)fluoranthene	370		ug/kg	100	34.	1
Chrysene	840		ug/kg	100	35.	1
Acenaphthylene	220		ug/kg	140	33.	1
Anthracene	480		ug/kg	100	29.	1
Benzo(ghi)perylene	360		ug/kg	140	37.	1
Fluorene	310		ug/kg	180	50.	1
Phenanthrene	2000		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	110		ug/kg	100	34.	1
Indeno(1,2,3-cd)Pyrene	310		ug/kg	140	39.	1
Pyrene	1900		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	400	58.	1
4-Chloroaniline	ND		ug/kg	180	46.	1
2-Nitroaniline	ND		ug/kg	180	50.	1
3-Nitroaniline	ND		ug/kg	180	49.	1
4-Nitroaniline	ND		ug/kg	180	48.	1
Dibenzofuran	160	J	ug/kg	180	59.	1
2-Methylnaphthalene	130	J	ug/kg	210	56.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	55.	1
Acetophenone	ND		ug/kg	180	55.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
P-Chloro-M-Cresol	ND		ug/kg	180	51.	1
2-Chlorophenol	ND		ug/kg	180	53.	1
2,4-Dichlorophenol	ND		ug/kg	160	57.	1
2,4-Dimethylphenol	ND		ug/kg	180	52.	1
2-Nitrophenol	ND		ug/kg	380	55.	1
4-Nitrophenol	ND		ug/kg	250	57.	1
2,4-Dinitrophenol	ND		ug/kg	850	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	64.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	52.	1
2-Methylphenol	ND		ug/kg	180	57.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	58.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	57.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	210		ug/kg	180	38.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-24

Date Collected: 04/19/13 09:40

Client ID: SB-16\_7-9-FIELD-DUP

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	96		0-136
4-Terphenyl-d14	97		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-25  
**Client ID:** SB-24\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 15:29  
**Analyst:** RC  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 10:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	110	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	160		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	94	J	ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-25

Date Collected: 04/19/13 10:10

Client ID: SB-24\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	110	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	92	J	ug/kg	110	39.	1
Benzo(k)fluoranthene	39	J	ug/kg	110	36.	1
Chrysene	84	J	ug/kg	110	38.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	34	J	ug/kg	110	32.	1
Benzo(ghi)perylene	51	J	ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	130		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	160		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	410	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	41.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-25

Date Collected: 04/19/13 10:10

Client ID: SB-24\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	99		0-136
4-Terphenyl-d14	98		18-120



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-26      D  
**Client ID:** SB-24\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 15:53  
**Analyst:** RC  
**Percent Solids:** 83%

**Date Collected:** 04/19/13 10:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1100		ug/kg	320	82.	2
1,2,4-Trichlorobenzene	ND		ug/kg	400	130	2
Hexachlorobenzene	ND		ug/kg	240	74.	2
Bis(2-chloroethyl)ether	ND		ug/kg	360	110	2
2-Chloronaphthalene	ND		ug/kg	400	130	2
1,2-Dichlorobenzene	ND		ug/kg	400	130	2
1,3-Dichlorobenzene	ND		ug/kg	400	120	2
1,4-Dichlorobenzene	ND		ug/kg	400	120	2
3,3'-Dichlorobenzidine	ND		ug/kg	400	100	2
2,4-Dinitrotoluene	ND		ug/kg	400	86.	2
2,6-Dinitrotoluene	ND		ug/kg	400	100	2
Fluoranthene	13000		ug/kg	240	73.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	400	120	2
4-Bromophenyl phenyl ether	ND		ug/kg	400	91.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	480	140	2
Bis(2-chloroethoxy)methane	ND		ug/kg	430	120	2
Hexachlorobutadiene	ND		ug/kg	400	110	2
Hexachlorocyclopentadiene	ND		ug/kg	1100	260	2
Hexachloroethane	ND		ug/kg	320	72.	2
Isophorone	ND		ug/kg	360	100	2
Naphthalene	510		ug/kg	400	130	2
Nitrobenzene	ND		ug/kg	360	95.	2
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	320	84.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	400	120	2
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	400	100	2
Butyl benzyl phthalate	ND		ug/kg	400	78.	2
Di-n-butylphthalate	ND		ug/kg	400	77.	2
Di-n-octylphthalate	ND		ug/kg	400	98.	2
Diethyl phthalate	ND		ug/kg	400	84.	2
Dimethyl phthalate	ND		ug/kg	400	100	2
Benzo(a)anthracene	5200		ug/kg	240	78.	2

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-26 D

Date Collected: 04/19/13 10:20

Client ID: SB-24\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	4000		ug/kg	320	97.	2
Benzo(b)fluoranthene	5900		ug/kg	240	80.	2
Benzo(k)fluoranthene	2000		ug/kg	240	76.	2
Chrysene	4700		ug/kg	240	78.	2
Acenaphthylene	500		ug/kg	320	74.	2
Anthracene	3400		ug/kg	240	66.	2
Benzo(ghi)perylene	2600		ug/kg	320	83.	2
Fluorene	1500		ug/kg	400	110	2
Phenanthrene	12000		ug/kg	240	78.	2
Dibenzo(a,h)anthracene	640		ug/kg	240	77.	2
Indeno(1,2,3-cd)Pyrene	2300		ug/kg	320	88.	2
Pyrene	11000		ug/kg	240	77.	2
Biphenyl	ND		ug/kg	910	130	2
4-Chloroaniline	ND		ug/kg	400	100	2
2-Nitroaniline	ND		ug/kg	400	110	2
3-Nitroaniline	ND		ug/kg	400	110	2
4-Nitroaniline	ND		ug/kg	400	110	2
Dibenzofuran	870		ug/kg	400	130	2
2-Methylnaphthalene	340	J	ug/kg	480	130	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	400	120	2
Acetophenone	ND		ug/kg	400	120	2
2,4,6-Trichlorophenol	ND		ug/kg	240	75.	2
P-Chloro-M-Cresol	ND		ug/kg	400	120	2
2-Chlorophenol	ND		ug/kg	400	120	2
2,4-Dichlorophenol	ND		ug/kg	360	130	2
2,4-Dimethylphenol	ND		ug/kg	400	120	2
2-Nitrophenol	ND		ug/kg	860	120	2
4-Nitrophenol	ND		ug/kg	560	130	2
2,4-Dinitrophenol	ND		ug/kg	1900	540	2
4,6-Dinitro-o-cresol	ND		ug/kg	1000	140	2
Pentachlorophenol	ND		ug/kg	320	85.	2
Phenol	ND		ug/kg	400	120	2
2-Methylphenol	ND		ug/kg	400	130	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	570	130	2
2,4,5-Trichlorophenol	ND		ug/kg	400	130	2
Benzoic Acid	ND		ug/kg	1300	400	2
Benzyl Alcohol	ND		ug/kg	400	120	2
Carbazole	1200		ug/kg	400	86.	2

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-26 D

Date Collected: 04/19/13 10:20

Client ID: SB-24\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	101		0-136
4-Terphenyl-d14	84		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-27  
**Client ID:** SB-23\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 16:17  
**Analyst:** RC  
**Percent Solids:** 82%

**Date Collected:** 04/19/13 10:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	41.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	65.	1
Hexachlorobenzene	ND		ug/kg	120	37.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	56.	1
2-Chloronaphthalene	ND		ug/kg	200	65.	1
1,2-Dichlorobenzene	ND		ug/kg	200	65.	1
1,3-Dichlorobenzene	ND		ug/kg	200	63.	1
1,4-Dichlorobenzene	ND		ug/kg	200	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	43.	1
2,6-Dinitrotoluene	ND		ug/kg	200	51.	1
Fluoranthene	260		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	60.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	46.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	70.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	60.	1
Hexachlorobutadiene	ND		ug/kg	200	56.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	130	1
Hexachloroethane	ND		ug/kg	160	36.	1
Isophorone	ND		ug/kg	180	53.	1
Naphthalene	ND		ug/kg	200	66.	1
Nitrobenzene	ND		ug/kg	180	47.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	42.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	59.	1
Bis(2-Ethylhexyl)phthalate	80	J	ug/kg	200	52.	1
Butyl benzyl phthalate	ND		ug/kg	200	39.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	49.	1
Diethyl phthalate	ND		ug/kg	200	42.	1
Dimethyl phthalate	ND		ug/kg	200	50.	1
Benzo(a)anthracene	130		ug/kg	120	39.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-27  
 Client ID: SB-23\_0-2  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 10:40  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	160		ug/kg	160	49.	1
Benzo(b)fluoranthene	150		ug/kg	120	40.	1
Benzo(k)fluoranthene	72	J	ug/kg	120	38.	1
Chrysene	130		ug/kg	120	39.	1
Acenaphthylene	ND		ug/kg	160	37.	1
Anthracene	ND		ug/kg	120	33.	1
Benzo(ghi)perylene	83	J	ug/kg	160	41.	1
Fluorene	ND		ug/kg	200	57.	1
Phenanthrene	120		ug/kg	120	39.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	70	J	ug/kg	160	44.	1
Pyrene	250		ug/kg	120	39.	1
Biphenyl	ND		ug/kg	450	66.	1
4-Chloroaniline	ND		ug/kg	200	52.	1
2-Nitroaniline	ND		ug/kg	200	56.	1
3-Nitroaniline	ND		ug/kg	200	55.	1
4-Nitroaniline	ND		ug/kg	200	54.	1
Dibenzofuran	ND		ug/kg	200	66.	1
2-Methylnaphthalene	ND		ug/kg	240	64.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	62.	1
Acetophenone	ND		ug/kg	200	62.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
P-Chloro-M-Cresol	ND		ug/kg	200	58.	1
2-Chlorophenol	ND		ug/kg	200	60.	1
2,4-Dichlorophenol	ND		ug/kg	180	64.	1
2,4-Dimethylphenol	ND		ug/kg	200	59.	1
2-Nitrophenol	ND		ug/kg	430	62.	1
4-Nitrophenol	ND		ug/kg	280	64.	1
2,4-Dinitrophenol	ND		ug/kg	950	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	73.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	200	59.	1
2-Methylphenol	ND		ug/kg	200	64.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	65.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	64.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	43.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-27

Date Collected: 04/19/13 10:40

Client ID: SB-23\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	87		0-136
4-Terphenyl-d14	97		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-28  
**Client ID:** SB-23\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 16:41  
**Analyst:** RC  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 10:55  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	64.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	55.	1
2-Chloronaphthalene	ND		ug/kg	200	64.	1
1,2-Dichlorobenzene	ND		ug/kg	200	64.	1
1,3-Dichlorobenzene	ND		ug/kg	200	61.	1
1,4-Dichlorobenzene	ND		ug/kg	200	59.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	42.	1
2,6-Dinitrotoluene	ND		ug/kg	200	50.	1
Fluoranthene	ND		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	45.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	69.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	59.	1
Hexachlorobutadiene	ND		ug/kg	200	55.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	120	1
Hexachloroethane	ND		ug/kg	160	35.	1
Isophorone	ND		ug/kg	180	52.	1
Naphthalene	ND		ug/kg	200	65.	1
Nitrobenzene	ND		ug/kg	180	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	41.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	58.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	51.	1
Butyl benzyl phthalate	ND		ug/kg	200	38.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	48.	1
Diethyl phthalate	ND		ug/kg	200	41.	1
Dimethyl phthalate	ND		ug/kg	200	50.	1
Benzo(a)anthracene	ND		ug/kg	120	38.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-28  
 Client ID: SB-23\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 10:55  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	39.	1
Benzo(k)fluoranthene	ND		ug/kg	120	37.	1
Chrysene	ND		ug/kg	120	38.	1
Acenaphthylene	ND		ug/kg	160	36.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	ND		ug/kg	160	40.	1
Fluorene	ND		ug/kg	200	56.	1
Phenanthrene	ND		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	43.	1
Pyrene	ND		ug/kg	120	38.	1
Biphenyl	ND		ug/kg	440	64.	1
4-Chloroaniline	ND		ug/kg	200	51.	1
2-Nitroaniline	ND		ug/kg	200	55.	1
3-Nitroaniline	ND		ug/kg	200	54.	1
4-Nitroaniline	ND		ug/kg	200	53.	1
Dibenzofuran	ND		ug/kg	200	65.	1
2-Methylnaphthalene	ND		ug/kg	230	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	60.	1
Acetophenone	ND		ug/kg	200	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
P-Chloro-M-Cresol	ND		ug/kg	200	56.	1
2-Chlorophenol	ND		ug/kg	200	59.	1
2,4-Dichlorophenol	ND		ug/kg	180	63.	1
2,4-Dimethylphenol	ND		ug/kg	200	58.	1
2-Nitrophenol	ND		ug/kg	420	61.	1
4-Nitrophenol	ND		ug/kg	270	63.	1
2,4-Dinitrophenol	ND		ug/kg	940	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	71.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	200	58.	1
2-Methylphenol	ND		ug/kg	200	63.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	64.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	63.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	42.	1



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-28

Date Collected: 04/19/13 10:55

Client ID: SB-23\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	84		0-136
4-Terphenyl-d14	100		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-29      D  
**Client ID:** SB-17\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 17:06  
**Analyst:** RC  
**Percent Solids:** 93%

**Date Collected:** 04/19/13 11:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1800		ug/kg	1400	360	10
1,2,4-Trichlorobenzene	ND		ug/kg	1700	570	10
Hexachlorobenzene	ND		ug/kg	1000	320	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	490	10
2-Chloronaphthalene	ND		ug/kg	1700	570	10
1,2-Dichlorobenzene	ND		ug/kg	1700	570	10
1,3-Dichlorobenzene	ND		ug/kg	1700	550	10
1,4-Dichlorobenzene	ND		ug/kg	1700	530	10
3,3'-Dichlorobenzidine	ND		ug/kg	1700	460	10
2,4-Dinitrotoluene	ND		ug/kg	1700	380	10
2,6-Dinitrotoluene	ND		ug/kg	1700	440	10
Fluoranthene	31000		ug/kg	1000	320	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1700	530	10
4-Bromophenyl phenyl ether	ND		ug/kg	1700	400	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2100	610	10
Bis(2-chloroethoxy)methane	ND		ug/kg	1900	530	10
Hexachlorobutadiene	ND		ug/kg	1700	490	10
Hexachlorocyclopentadiene	ND		ug/kg	5000	1100	10
Hexachloroethane	ND		ug/kg	1400	320	10
Isophorone	ND		ug/kg	1600	460	10
Naphthalene	2200		ug/kg	1700	580	10
Nitrobenzene	ND		ug/kg	1600	410	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1400	360	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1700	520	10
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1700	460	10
Butyl benzyl phthalate	ND		ug/kg	1700	340	10
Di-n-butylphthalate	ND		ug/kg	1700	340	10
Di-n-octylphthalate	ND		ug/kg	1700	430	10
Diethyl phthalate	ND		ug/kg	1700	370	10
Dimethyl phthalate	ND		ug/kg	1700	440	10
Benzo(a)anthracene	14000		ug/kg	1000	340	10

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-29 D

Date Collected: 04/19/13 11:10

Client ID: SB-17\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	10000		ug/kg	1400	420	10
Benzo(b)fluoranthene	13000		ug/kg	1000	350	10
Benzo(k)fluoranthene	6300		ug/kg	1000	330	10
Chrysene	14000		ug/kg	1000	340	10
Acenaphthylene	3500		ug/kg	1400	320	10
Anthracene	7800		ug/kg	1000	290	10
Benzo(ghi)perylene	5800		ug/kg	1400	360	10
Fluorene	3300		ug/kg	1700	500	10
Phenanthrene	27000		ug/kg	1000	340	10
Dibenzo(a,h)anthracene	1900		ug/kg	1000	340	10
Indeno(1,2,3-cd)Pyrene	5200		ug/kg	1400	390	10
Pyrene	29000		ug/kg	1000	340	10
Biphenyl	ND		ug/kg	4000	570	10
4-Chloroaniline	ND		ug/kg	1700	460	10
2-Nitroaniline	ND		ug/kg	1700	490	10
3-Nitroaniline	ND		ug/kg	1700	480	10
4-Nitroaniline	ND		ug/kg	1700	470	10
Dibenzofuran	1600	J	ug/kg	1700	580	10
2-Methylnaphthalene	1600	J	ug/kg	2100	560	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1700	540	10
Acetophenone	ND		ug/kg	1700	540	10
2,4,6-Trichlorophenol	ND		ug/kg	1000	330	10
P-Chloro-M-Cresol	ND		ug/kg	1700	500	10
2-Chlorophenol	ND		ug/kg	1700	520	10
2,4-Dichlorophenol	ND		ug/kg	1600	560	10
2,4-Dimethylphenol	ND		ug/kg	1700	520	10
2-Nitrophenol	ND		ug/kg	3800	540	10
4-Nitrophenol	ND		ug/kg	2400	560	10
2,4-Dinitrophenol	ND		ug/kg	8400	2400	10
4,6-Dinitro-o-cresol	ND		ug/kg	4500	640	10
Pentachlorophenol	ND		ug/kg	1400	370	10
Phenol	ND		ug/kg	1700	520	10
2-Methylphenol	ND		ug/kg	1700	560	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2500	570	10
2,4,5-Trichlorophenol	ND		ug/kg	1700	560	10
Benzoic Acid	ND		ug/kg	5600	1800	10
Benzyl Alcohol	ND		ug/kg	1700	540	10
Carbazole	1800		ug/kg	1700	370	10

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-29 D

Date Collected: 04/19/13 11:10

Client ID: SB-17\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	24	Q	25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	102		30-120
2,4,6-Tribromophenol	83		0-136
4-Terphenyl-d14	104		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-30      D  
**Client ID:** SB-17\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 21:11  
**Analyst:** RC  
**Percent Solids:** 82%

**Date Collected:** 04/19/13 11:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1400		ug/kg	640	160	4
1,2,4-Trichlorobenzene	ND		ug/kg	800	260	4
Hexachlorobenzene	ND		ug/kg	480	150	4
Bis(2-chloroethyl)ether	ND		ug/kg	720	220	4
2-Chloronaphthalene	ND		ug/kg	800	260	4
1,2-Dichlorobenzene	ND		ug/kg	800	260	4
1,3-Dichlorobenzene	ND		ug/kg	800	250	4
1,4-Dichlorobenzene	ND		ug/kg	800	240	4
3,3'-Dichlorobenzidine	ND		ug/kg	800	210	4
2,4-Dinitrotoluene	ND		ug/kg	800	170	4
2,6-Dinitrotoluene	ND		ug/kg	800	200	4
Fluoranthene	22000		ug/kg	480	150	4
4-Chlorophenyl phenyl ether	ND		ug/kg	800	240	4
4-Bromophenyl phenyl ether	ND		ug/kg	800	180	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	960	280	4
Bis(2-chloroethoxy)methane	ND		ug/kg	860	240	4
Hexachlorobutadiene	ND		ug/kg	800	220	4
Hexachlorocyclopentadiene	ND		ug/kg	2300	510	4
Hexachloroethane	ND		ug/kg	640	140	4
Isophorone	ND		ug/kg	720	210	4
Naphthalene	780	J	ug/kg	800	260	4
Nitrobenzene	ND		ug/kg	720	190	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	640	170	4
n-Nitrosodi-n-propylamine	ND		ug/kg	800	240	4
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	800	210	4
Butyl benzyl phthalate	ND		ug/kg	800	160	4
Di-n-butylphthalate	ND		ug/kg	800	150	4
Di-n-octylphthalate	ND		ug/kg	800	200	4
Diethyl phthalate	ND		ug/kg	800	170	4
Dimethyl phthalate	ND		ug/kg	800	200	4
Benzo(a)anthracene	10000		ug/kg	480	160	4

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-30 D

Date Collected: 04/19/13 11:20

Client ID: SB-17\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	7800		ug/kg	640	200	4
Benzo(b)fluoranthene	11000		ug/kg	480	160	4
Benzo(k)fluoranthene	4000		ug/kg	480	150	4
Chrysene	10000		ug/kg	480	160	4
Acenaphthylene	870		ug/kg	640	150	4
Anthracene	3400		ug/kg	480	130	4
Benzo(ghi)perylene	4500		ug/kg	640	170	4
Fluorene	1500		ug/kg	800	230	4
Phenanthrene	17000		ug/kg	480	160	4
Dibenzo(a,h)anthracene	1200		ug/kg	480	150	4
Indeno(1,2,3-cd)Pyrene	4100		ug/kg	640	180	4
Pyrene	21000		ug/kg	480	160	4
Biphenyl	ND		ug/kg	1800	260	4
4-Chloroaniline	ND		ug/kg	800	210	4
2-Nitroaniline	ND		ug/kg	800	220	4
3-Nitroaniline	ND		ug/kg	800	220	4
4-Nitroaniline	ND		ug/kg	800	220	4
Dibenzofuran	770	J	ug/kg	800	270	4
2-Methylnaphthalene	520	J	ug/kg	960	260	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	800	250	4
Acetophenone	ND		ug/kg	800	250	4
2,4,6-Trichlorophenol	ND		ug/kg	480	150	4
P-Chloro-M-Cresol	ND		ug/kg	800	230	4
2-Chlorophenol	ND		ug/kg	800	240	4
2,4-Dichlorophenol	ND		ug/kg	720	260	4
2,4-Dimethylphenol	ND		ug/kg	800	240	4
2-Nitrophenol	ND		ug/kg	1700	250	4
4-Nitrophenol	ND		ug/kg	1100	260	4
2,4-Dinitrophenol	ND		ug/kg	3800	1100	4
4,6-Dinitro-o-cresol	ND		ug/kg	2100	290	4
Pentachlorophenol	ND		ug/kg	640	170	4
Phenol	ND		ug/kg	800	240	4
2-Methylphenol	ND		ug/kg	800	260	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1200	260	4
2,4,5-Trichlorophenol	ND		ug/kg	800	260	4
Benzoic Acid	ND		ug/kg	2600	810	4
Benzyl Alcohol	ND		ug/kg	800	250	4
Carbazole	1500		ug/kg	800	170	4

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-30 D

Date Collected: 04/19/13 11:20

Client ID: SB-17\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	101		0-136
4-Terphenyl-d14	93		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-31 D  
**Client ID:** SB-11\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 21:35  
**Analyst:** RC  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 11:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	3600		ug/kg	1300	320	8
1,2,4-Trichlorobenzene	ND		ug/kg	1600	520	8
Hexachlorobenzene	ND		ug/kg	950	290	8
Bis(2-chloroethyl)ether	ND		ug/kg	1400	440	8
2-Chloronaphthalene	ND		ug/kg	1600	510	8
1,2-Dichlorobenzene	ND		ug/kg	1600	520	8
1,3-Dichlorobenzene	ND		ug/kg	1600	500	8
1,4-Dichlorobenzene	ND		ug/kg	1600	480	8
3,3'-Dichlorobenzidine	ND		ug/kg	1600	420	8
2,4-Dinitrotoluene	ND		ug/kg	1600	340	8
2,6-Dinitrotoluene	ND		ug/kg	1600	400	8
Fluoranthene	32000		ug/kg	950	290	8
4-Chlorophenyl phenyl ether	ND		ug/kg	1600	480	8
4-Bromophenyl phenyl ether	ND		ug/kg	1600	360	8
Bis(2-chloroisopropyl)ether	ND		ug/kg	1900	560	8
Bis(2-chloroethoxy)methane	ND		ug/kg	1700	480	8
Hexachlorobutadiene	ND		ug/kg	1600	440	8
Hexachlorocyclopentadiene	ND		ug/kg	4500	1000	8
Hexachloroethane	ND		ug/kg	1300	290	8
Isophorone	ND		ug/kg	1400	420	8
Naphthalene	3100		ug/kg	1600	520	8
Nitrobenzene	ND		ug/kg	1400	380	8
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1300	330	8
n-Nitrosodi-n-propylamine	ND		ug/kg	1600	470	8
Bis(2-Ethylhexyl)phthalate	14000		ug/kg	1600	410	8
Butyl benzyl phthalate	ND		ug/kg	1600	310	8
Di-n-butylphthalate	490	J	ug/kg	1600	300	8
Di-n-octylphthalate	ND		ug/kg	1600	390	8
Diethyl phthalate	ND		ug/kg	1600	330	8
Dimethyl phthalate	ND		ug/kg	1600	400	8
Benzo(a)anthracene	14000		ug/kg	950	310	8



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-31 D

Date Collected: 04/19/13 11:40

Client ID: SB-11\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	11000		ug/kg	1300	380	8
Benzo(b)fluoranthene	16000		ug/kg	950	320	8
Benzo(k)fluoranthene	6400		ug/kg	950	300	8
Chrysene	14000		ug/kg	950	310	8
Acenaphthylene	470	J	ug/kg	1300	290	8
Anthracene	6800		ug/kg	950	260	8
Benzo(ghi)perylene	5700		ug/kg	1300	330	8
Fluorene	3400		ug/kg	1600	450	8
Phenanthrene	23000		ug/kg	950	310	8
Dibenzo(a,h)anthracene	1500		ug/kg	950	300	8
Indeno(1,2,3-cd)Pyrene	5400		ug/kg	1300	350	8
Pyrene	27000		ug/kg	950	310	8
Biphenyl	ND		ug/kg	3600	520	8
4-Chloroaniline	ND		ug/kg	1600	420	8
2-Nitroaniline	ND		ug/kg	1600	440	8
3-Nitroaniline	ND		ug/kg	1600	440	8
4-Nitroaniline	ND		ug/kg	1600	420	8
Dibenzofuran	2000		ug/kg	1600	530	8
2-Methylnaphthalene	2300		ug/kg	1900	500	8
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1600	490	8
Acetophenone	1300	J	ug/kg	1600	490	8
2,4,6-Trichlorophenol	ND		ug/kg	950	300	8
P-Chloro-M-Cresol	ND		ug/kg	1600	460	8
2-Chlorophenol	ND		ug/kg	1600	480	8
2,4-Dichlorophenol	ND		ug/kg	1400	510	8
2,4-Dimethylphenol	ND		ug/kg	1600	470	8
2-Nitrophenol	ND		ug/kg	3400	490	8
4-Nitrophenol	ND		ug/kg	2200	510	8
2,4-Dinitrophenol	ND		ug/kg	7600	2200	8
4,6-Dinitro-o-cresol	ND		ug/kg	4100	580	8
Pentachlorophenol	ND		ug/kg	1300	340	8
Phenol	ND		ug/kg	1600	470	8
2-Methylphenol	ND		ug/kg	1600	510	8
3-Methylphenol/4-Methylphenol	ND		ug/kg	2300	520	8
2,4,5-Trichlorophenol	ND		ug/kg	1600	510	8
Benzoic Acid	ND		ug/kg	5100	1600	8
Benzyl Alcohol	ND		ug/kg	1600	480	8
Carbazole	3400		ug/kg	1600	340	8

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-31 D

Date Collected: 04/19/13 11:40

Client ID: SB-11\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	127		0-136
4-Terphenyl-d14	98		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-32  
**Client ID:** SB-11\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 18:19  
**Analyst:** RC  
**Percent Solids:** 91%

**Date Collected:** 04/19/13 11:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	58.	1
Hexachlorobenzene	ND		ug/kg	110	33.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	50.	1
2-Chloronaphthalene	ND		ug/kg	180	58.	1
1,2-Dichlorobenzene	ND		ug/kg	180	58.	1
1,3-Dichlorobenzene	ND		ug/kg	180	56.	1
1,4-Dichlorobenzene	ND		ug/kg	180	54.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	38.	1
2,6-Dinitrotoluene	ND		ug/kg	180	45.	1
Fluoranthene	ND		ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	54.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	41.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	62.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	54.	1
Hexachlorobutadiene	ND		ug/kg	180	50.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	47.	1
Naphthalene	ND		ug/kg	180	59.	1
Nitrobenzene	ND		ug/kg	160	42.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	37.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	53.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	46.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	44.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	45.	1
Benzo(a)anthracene	ND		ug/kg	110	35.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-32  
 Client ID: SB-11\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 11:50  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	36.	1
Benzo(k)fluoranthene	ND		ug/kg	110	34.	1
Chrysene	ND		ug/kg	110	35.	1
Acenaphthylene	ND		ug/kg	140	33.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	140	37.	1
Fluorene	ND		ug/kg	180	51.	1
Phenanthrene	ND		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	34.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	39.	1
Pyrene	ND		ug/kg	110	34.	1
Biphenyl	ND		ug/kg	400	58.	1
4-Chloroaniline	ND		ug/kg	180	47.	1
2-Nitroaniline	ND		ug/kg	180	50.	1
3-Nitroaniline	ND		ug/kg	180	49.	1
4-Nitroaniline	ND		ug/kg	180	48.	1
Dibenzofuran	ND		ug/kg	180	59.	1
2-Methylnaphthalene	ND		ug/kg	210	57.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	55.	1
Acetophenone	ND		ug/kg	180	55.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	33.	1
P-Chloro-M-Cresol	ND		ug/kg	180	51.	1
2-Chlorophenol	ND		ug/kg	180	54.	1
2,4-Dichlorophenol	ND		ug/kg	160	58.	1
2,4-Dimethylphenol	ND		ug/kg	180	53.	1
2-Nitrophenol	ND		ug/kg	380	55.	1
4-Nitrophenol	ND		ug/kg	250	58.	1
2,4-Dinitrophenol	ND		ug/kg	850	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	65.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	52.	1
2-Methylphenol	ND		ug/kg	180	57.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	58.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	58.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	38.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-32

Date Collected: 04/19/13 11:50

Client ID: SB-11\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	84		0-136
4-Terphenyl-d14	92		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-33      D  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 18:44  
**Analyst:** RC  
**Percent Solids:** 79%

**Date Collected:** 04/19/13 12:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	340	J	ug/kg	660	170	4
1,2,4-Trichlorobenzene	ND		ug/kg	820	270	4
Hexachlorobenzene	ND		ug/kg	490	150	4
Bis(2-chloroethyl)ether	ND		ug/kg	740	230	4
2-Chloronaphthalene	ND		ug/kg	820	270	4
1,2-Dichlorobenzene	ND		ug/kg	820	270	4
1,3-Dichlorobenzene	ND		ug/kg	820	260	4
1,4-Dichlorobenzene	ND		ug/kg	820	250	4
3,3'-Dichlorobenzidine	ND		ug/kg	820	220	4
2,4-Dinitrotoluene	ND		ug/kg	820	180	4
2,6-Dinitrotoluene	ND		ug/kg	820	210	4
Fluoranthene	4600		ug/kg	490	150	4
4-Chlorophenyl phenyl ether	ND		ug/kg	820	250	4
4-Bromophenyl phenyl ether	ND		ug/kg	820	190	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	990	290	4
Bis(2-chloroethoxy)methane	ND		ug/kg	890	250	4
Hexachlorobutadiene	ND		ug/kg	820	230	4
Hexachlorocyclopentadiene	ND		ug/kg	2400	530	4
Hexachloroethane	ND		ug/kg	660	150	4
Isophorone	ND		ug/kg	740	220	4
Naphthalene	310	J	ug/kg	820	270	4
Nitrobenzene	ND		ug/kg	740	200	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	660	170	4
n-Nitrosodi-n-propylamine	ND		ug/kg	820	240	4
Bis(2-Ethylhexyl)phthalate	3200		ug/kg	820	220	4
Butyl benzyl phthalate	ND		ug/kg	820	160	4
Di-n-butylphthalate	ND		ug/kg	820	160	4
Di-n-octylphthalate	ND		ug/kg	820	200	4
Diethyl phthalate	ND		ug/kg	820	170	4
Dimethyl phthalate	ND		ug/kg	820	210	4
Benzo(a)anthracene	2200		ug/kg	490	160	4

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-33 D

Date Collected: 04/19/13 12:10

Client ID: SB-7\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	2100		ug/kg	660	200	4
Benzo(b)fluoranthene	2600		ug/kg	490	170	4
Benzo(k)fluoranthene	1200		ug/kg	490	160	4
Chrysene	2200		ug/kg	490	160	4
Acenaphthylene	220	J	ug/kg	660	150	4
Anthracene	910		ug/kg	490	140	4
Benzo(ghi)perylene	1700		ug/kg	660	170	4
Fluorene	370	J	ug/kg	820	240	4
Phenanthrene	3300		ug/kg	490	160	4
Dibenzo(a,h)anthracene	320	J	ug/kg	490	160	4
Indeno(1,2,3-cd)Pyrene	1400		ug/kg	660	180	4
Pyrene	4500		ug/kg	490	160	4
Biphenyl	ND		ug/kg	1900	270	4
4-Chloroaniline	ND		ug/kg	820	220	4
2-Nitroaniline	ND		ug/kg	820	230	4
3-Nitroaniline	ND		ug/kg	820	230	4
4-Nitroaniline	ND		ug/kg	820	220	4
Dibenzofuran	ND		ug/kg	820	270	4
2-Methylnaphthalene	270	J	ug/kg	990	260	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	820	260	4
Acetophenone	ND		ug/kg	820	260	4
2,4,6-Trichlorophenol	ND		ug/kg	490	160	4
P-Chloro-M-Cresol	ND		ug/kg	820	240	4
2-Chlorophenol	ND		ug/kg	820	250	4
2,4-Dichlorophenol	ND		ug/kg	740	270	4
2,4-Dimethylphenol	ND		ug/kg	820	240	4
2-Nitrophenol	ND		ug/kg	1800	260	4
4-Nitrophenol	ND		ug/kg	1200	270	4
2,4-Dinitrophenol	ND		ug/kg	4000	1100	4
4,6-Dinitro-o-cresol	ND		ug/kg	2100	300	4
Pentachlorophenol	ND		ug/kg	660	180	4
Phenol	ND		ug/kg	820	240	4
2-Methylphenol	ND		ug/kg	820	260	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1200	270	4
2,4,5-Trichlorophenol	ND		ug/kg	820	270	4
Benzoic Acid	ND		ug/kg	2700	830	4
Benzyl Alcohol	ND		ug/kg	820	250	4
Carbazole	380	J	ug/kg	820	180	4

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-33 D

Date Collected: 04/19/13 12:10

Client ID: SB-7\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	98		0-136
4-Terphenyl-d14	95		18-120



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-34      D  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 19:08  
**Analyst:** RC  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 12:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	940	240	6
1,2,4-Trichlorobenzene	ND		ug/kg	1200	380	6
Hexachlorobenzene	ND		ug/kg	700	220	6
Bis(2-chloroethyl)ether	ND		ug/kg	1000	330	6
2-Chloronaphthalene	ND		ug/kg	1200	380	6
1,2-Dichlorobenzene	ND		ug/kg	1200	380	6
1,3-Dichlorobenzene	ND		ug/kg	1200	370	6
1,4-Dichlorobenzene	ND		ug/kg	1200	360	6
3,3'-Dichlorobenzidine	ND		ug/kg	1200	310	6
2,4-Dinitrotoluene	ND		ug/kg	1200	250	6
2,6-Dinitrotoluene	ND		ug/kg	1200	300	6
Fluoranthene	2100		ug/kg	700	210	6
4-Chlorophenyl phenyl ether	ND		ug/kg	1200	360	6
4-Bromophenyl phenyl ether	ND		ug/kg	1200	270	6
Bis(2-chloroisopropyl)ether	ND		ug/kg	1400	410	6
Bis(2-chloroethoxy)methane	ND		ug/kg	1300	350	6
Hexachlorobutadiene	ND		ug/kg	1200	330	6
Hexachlorocyclopentadiene	ND		ug/kg	3400	750	6
Hexachloroethane	ND		ug/kg	940	210	6
Isophorone	ND		ug/kg	1000	310	6
Naphthalene	ND		ug/kg	1200	390	6
Nitrobenzene	ND		ug/kg	1000	280	6
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	940	240	6
n-Nitrosodi-n-propylamine	ND		ug/kg	1200	350	6
Bis(2-Ethylhexyl)phthalate	4000		ug/kg	1200	310	6
Butyl benzyl phthalate	ND		ug/kg	1200	230	6
Di-n-butylphthalate	ND		ug/kg	1200	220	6
Di-n-octylphthalate	ND		ug/kg	1200	290	6
Diethyl phthalate	ND		ug/kg	1200	250	6
Dimethyl phthalate	ND		ug/kg	1200	300	6
Benzo(a)anthracene	1200		ug/kg	700	230	6

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-34 D

Date Collected: 04/19/13 12:20

Client ID: SB-7\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	1400		ug/kg	940	290	6
Benzo(b)fluoranthene	1600		ug/kg	700	240	6
Benzo(k)fluoranthene	670	J	ug/kg	700	220	6
Chrysene	1300		ug/kg	700	230	6
Acenaphthylene	230	J	ug/kg	940	220	6
Anthracene	390	J	ug/kg	700	190	6
Benzo(ghi)perylene	1200		ug/kg	940	240	6
Fluorene	ND		ug/kg	1200	340	6
Phenanthrene	1200		ug/kg	700	230	6
Dibenzo(a,h)anthracene	240	J	ug/kg	700	230	6
Indeno(1,2,3-cd)Pyrene	1000		ug/kg	940	260	6
Pyrene	2500		ug/kg	700	230	6
Biphenyl	ND		ug/kg	2700	390	6
4-Chloroaniline	ND		ug/kg	1200	310	6
2-Nitroaniline	ND		ug/kg	1200	330	6
3-Nitroaniline	ND		ug/kg	1200	320	6
4-Nitroaniline	ND		ug/kg	1200	320	6
Dibenzofuran	ND		ug/kg	1200	390	6
2-Methylnaphthalene	ND		ug/kg	1400	370	6
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1200	360	6
Acetophenone	ND		ug/kg	1200	360	6
2,4,6-Trichlorophenol	ND		ug/kg	700	220	6
P-Chloro-M-Cresol	ND		ug/kg	1200	340	6
2-Chlorophenol	ND		ug/kg	1200	350	6
2,4-Dichlorophenol	ND		ug/kg	1000	380	6
2,4-Dimethylphenol	ND		ug/kg	1200	350	6
2-Nitrophenol	ND		ug/kg	2500	360	6
4-Nitrophenol	ND		ug/kg	1600	380	6
2,4-Dinitrophenol	ND		ug/kg	5600	1600	6
4,6-Dinitro-o-cresol	ND		ug/kg	3000	430	6
Pentachlorophenol	ND		ug/kg	940	250	6
Phenol	ND		ug/kg	1200	350	6
2-Methylphenol	ND		ug/kg	1200	380	6
3-Methylphenol/4-Methylphenol	ND		ug/kg	1700	380	6
2,4,5-Trichlorophenol	ND		ug/kg	1200	380	6
Benzoic Acid	ND		ug/kg	3800	1200	6
Benzyl Alcohol	ND		ug/kg	1200	360	6
Carbazole	ND		ug/kg	1200	250	6

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-34 D

Date Collected: 04/19/13 12:20

Client ID: SB-7\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	116		0-136
4-Terphenyl-d14	100		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-35  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/23/13 10:58  
**Analyst:** RC

**Date Collected:** 04/19/13 00:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/22/13 08:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-35  
 Client ID: FIELD BLANK  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/19/13 00:00  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	78		41-149

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-35  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 04/24/13 10:50  
**Analyst:** AS

**Date Collected:** 04/19/13 00:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/22/13 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	81		41-149

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-37 D  
**Client ID:** SB-26\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 19:33  
**Analyst:** RC  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 17:25  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	360	J	ug/kg	920	240	6
1,2,4-Trichlorobenzene	ND		ug/kg	1100	380	6
Hexachlorobenzene	ND		ug/kg	690	210	6
Bis(2-chloroethyl)ether	ND		ug/kg	1000	320	6
2-Chloronaphthalene	ND		ug/kg	1100	370	6
1,2-Dichlorobenzene	ND		ug/kg	1100	380	6
1,3-Dichlorobenzene	ND		ug/kg	1100	360	6
1,4-Dichlorobenzene	ND		ug/kg	1100	350	6
3,3'-Dichlorobenzidine	ND		ug/kg	1100	300	6
2,4-Dinitrotoluene	ND		ug/kg	1100	250	6
2,6-Dinitrotoluene	ND		ug/kg	1100	290	6
Fluoranthene	6200		ug/kg	690	210	6
4-Chlorophenyl phenyl ether	ND		ug/kg	1100	350	6
4-Bromophenyl phenyl ether	ND		ug/kg	1100	260	6
Bis(2-chloroisopropyl)ether	ND		ug/kg	1400	400	6
Bis(2-chloroethoxy)methane	ND		ug/kg	1200	350	6
Hexachlorobutadiene	ND		ug/kg	1100	320	6
Hexachlorocyclopentadiene	ND		ug/kg	3300	740	6
Hexachloroethane	ND		ug/kg	920	210	6
Isophorone	ND		ug/kg	1000	300	6
Naphthalene	540	J	ug/kg	1100	380	6
Nitrobenzene	ND		ug/kg	1000	270	6
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	920	240	6
n-Nitrosodi-n-propylamine	ND		ug/kg	1100	340	6
Bis(2-Ethylhexyl)phthalate	11000		ug/kg	1100	300	6
Butyl benzyl phthalate	ND		ug/kg	1100	220	6
Di-n-butylphthalate	ND		ug/kg	1100	220	6
Di-n-octylphthalate	ND		ug/kg	1100	280	6
Diethyl phthalate	ND		ug/kg	1100	240	6
Dimethyl phthalate	ND		ug/kg	1100	290	6
Benzo(a)anthracene	3000		ug/kg	690	220	6

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-37 D

Date Collected: 04/18/13 17:25

Client ID: SB-26\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	2600		ug/kg	920	280	6
Benzo(b)fluoranthene	3900		ug/kg	690	230	6
Benzo(k)fluoranthene	1700		ug/kg	690	220	6
Chrysene	3100		ug/kg	690	220	6
Acenaphthylene	460	J	ug/kg	920	210	6
Anthracene	960		ug/kg	690	190	6
Benzo(ghi)perylene	1500		ug/kg	920	240	6
Fluorene	480	J	ug/kg	1100	330	6
Phenanthrene	3500		ug/kg	690	220	6
Dibenzo(a,h)anthracene	380	J	ug/kg	690	220	6
Indeno(1,2,3-cd)Pyrene	1400		ug/kg	920	250	6
Pyrene	6500		ug/kg	690	220	6
Biphenyl	ND		ug/kg	2600	380	6
4-Chloroaniline	ND		ug/kg	1100	300	6
2-Nitroaniline	ND		ug/kg	1100	320	6
3-Nitroaniline	ND		ug/kg	1100	320	6
4-Nitroaniline	ND		ug/kg	1100	310	6
Dibenzofuran	ND		ug/kg	1100	380	6
2-Methylnaphthalene	470	J	ug/kg	1400	370	6
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1100	360	6
Acetophenone	ND		ug/kg	1100	360	6
2,4,6-Trichlorophenol	ND		ug/kg	690	220	6
P-Chloro-M-Cresol	ND		ug/kg	1100	330	6
2-Chlorophenol	ND		ug/kg	1100	350	6
2,4-Dichlorophenol	ND		ug/kg	1000	370	6
2,4-Dimethylphenol	ND		ug/kg	1100	340	6
2-Nitrophenol	ND		ug/kg	2500	360	6
4-Nitrophenol	ND		ug/kg	1600	370	6
2,4-Dinitrophenol	ND		ug/kg	5500	1600	6
4,6-Dinitro-o-cresol	ND		ug/kg	3000	420	6
Pentachlorophenol	ND		ug/kg	920	240	6
Phenol	1100		ug/kg	1100	340	6
2-Methylphenol	ND		ug/kg	1100	370	6
3-Methylphenol/4-Methylphenol	770	J	ug/kg	1600	380	6
2,4,5-Trichlorophenol	ND		ug/kg	1100	370	6
Benzoic Acid	ND		ug/kg	3700	1200	6
Benzyl Alcohol	ND		ug/kg	1100	350	6
Carbazole	420	J	ug/kg	1100	250	6



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-37 D

Date Collected: 04/18/13 17:25

Client ID: SB-26\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	47		0-136
4-Terphenyl-d14	103		18-120

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-38  
**Client ID:** SB-26\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/25/13 19:58  
**Analyst:** RC  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 17:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 12:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	61.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	40.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	100	J	ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-38  
 Client ID: SB-26\_7-9  
 Sample Location: 514 W. 27TH ST. NYC

Date Collected: 04/18/13 17:35  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	49.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	50.	1
Dibenzofuran	ND		ug/kg	190	62.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	55.	1
2-Methylphenol	ND		ug/kg	190	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307016-38

Date Collected: 04/18/13 17:35

Client ID: SB-26\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	86		0-136
4-Terphenyl-d14	94		18-120

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/23/13 12:23  
 Analyst: RC

Extraction Method: EPA 3546  
 Extraction Date: 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-20 Batch: WG602875-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/23/13 12:23  
 Analyst: RC

Extraction Method: EPA 3546  
 Extraction Date: 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-20 Batch: WG602875-1					
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	54.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	790	220
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/23/13 12:23  
 Analyst: RC

Extraction Method: EPA 3546  
 Extraction Date: 04/20/13 10:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-20 Batch: WG602875-1					
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	83		0-136
4-Terphenyl-d14	94		18-120

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/25/13 11:48  
 Analyst: RC

Extraction Method: EPA 3546  
 Extraction Date: 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 21-34,37-38 Batch: WG602883-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/25/13 11:48  
 Analyst: RC

Extraction Method: EPA 3546  
 Extraction Date: 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 21-34,37-38 Batch: WG602883-1					
Benzo(a)anthracene	ND		ug/kg	99	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	54.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	790	220

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/25/13 11:48  
 Analyst: RC

Extraction Method: EPA 3546  
 Extraction Date: 04/20/13 12:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 21-34,37-38 Batch: WG602883-1					
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	131	Q	25-120
Phenol-d6	131	Q	10-120
Nitrobenzene-d5	122	Q	23-120
2-Fluorobiphenyl	120		30-120
2,4,6-Tribromophenol	107		0-136
4-Terphenyl-d14	127	Q	18-120

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/23/13 09:07  
 Analyst: RC

Extraction Method: EPA 3510C  
 Extraction Date: 04/22/13 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 35 Batch: WG602993-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40
Hexachlorocyclopentadiene	ND		ug/l	20	2.1
Isophorone	ND		ug/l	5.0	0.35
Nitrobenzene	ND		ug/l	2.0	0.50
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	0.46
Di-n-butylphthalate	ND		ug/l	5.0	0.54
Di-n-octylphthalate	ND		ug/l	5.0	0.53
Diethyl phthalate	ND		ug/l	5.0	0.45
Dimethyl phthalate	ND		ug/l	5.0	0.45
Biphenyl	ND		ug/l	2.0	0.50
4-Chloroaniline	ND		ug/l	5.0	0.83
2-Nitroaniline	ND		ug/l	5.0	0.40
3-Nitroaniline	ND		ug/l	5.0	0.59
4-Nitroaniline	ND		ug/l	5.0	0.55
Dibenzofuran	ND		ug/l	2.0	0.47
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65
Acetophenone	ND		ug/l	5.0	0.55



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/23/13 09:07  
 Analyst: RC

Extraction Method: EPA 3510C  
 Extraction Date: 04/22/13 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 35 Batch: WG602993-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50
2-Chlorophenol	ND		ug/l	2.0	0.34
2,4-Dichlorophenol	ND		ug/l	5.0	0.43
2,4-Dimethylphenol	ND		ug/l	5.0	1.2
2-Nitrophenol	ND		ug/l	10	0.48
4-Nitrophenol	ND		ug/l	10	1.2
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59
Phenol	ND		ug/l	5.0	0.26
2-Methylphenol	ND		ug/l	5.0	0.53
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.53

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	80		41-149

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM  
 Analytical Date: 04/23/13 18:29  
 Analyst: AS

Extraction Method: EPA 3510C  
 Extraction Date: 04/22/13 08:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 35 Batch: WG602994-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**Method Blank Analysis**  
**Batch Quality Control****Analytical Method:** 1,8270D-SIM**Extraction Method:** EPA 3510C**Analytical Date:** 04/23/13 18:29**Extraction Date:** 04/22/13 08:06**Analyst:** AS

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 35 Batch: WG602994-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	98		41-149

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 Batch: WG602875-2 WG602875-3								
Acenaphthene	75		83		31-137	10		50
1,2,4-Trichlorobenzene	60		87		38-107	37		50
Hexachlorobenzene	84		89		40-140	6		50
Bis(2-chloroethyl)ether	56		71		40-140	24		50
2-Chloronaphthalene	69		86		40-140	22		50
1,2-Dichlorobenzene	55		70		40-140	24		50
1,3-Dichlorobenzene	55		73		40-140	28		50
1,4-Dichlorobenzene	56		72		28-104	25		50
3,3'-Dichlorobenzidine	55		48		40-140	14		50
2,4-Dinitrotoluene	79		93	Q	28-89	16		50
2,6-Dinitrotoluene	86		99		40-140	14		50
Fluoranthene	90		102		40-140	13		50
4-Chlorophenyl phenyl ether	80		94		40-140	16		50
4-Bromophenyl phenyl ether	86		94		40-140	9		50
Bis(2-chloroisopropyl)ether	50		59		40-140	17		50
Bis(2-chloroethoxy)methane	59		59		40-117	0		50
Hexachlorobutadiene	60		96		40-140	46		50
Hexachlorocyclopentadiene	63		88		40-140	33		50
Hexachloroethane	51		65		40-140	24		50
Isophorone	62		60		40-140	3		50
Naphthalene	59		76		40-140	25		50

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 Batch: WG602875-2 WG602875-3								
Nitrobenzene	52		70		40-140	30		50
NitrosoDiPhenylAmine(NDPA)/DPA	82		98			18		50
n-Nitrosodi-n-propylamine	58		63		32-121	8		50
Bis(2-Ethylhexyl)phthalate	105		110		40-140	5		50
Butyl benzyl phthalate	90		102		40-140	13		50
Di-n-butylphthalate	93		106		40-140	13		50
Di-n-octylphthalate	105		106		40-140	1		50
Diethyl phthalate	87		94		40-140	8		50
Dimethyl phthalate	81		87		40-140	7		50
Benzo(a)anthracene	91		96		40-140	5		50
Benzo(a)pyrene	89		94		40-140	5		50
Benzo(b)fluoranthene	85		89		40-140	5		50
Benzo(k)fluoranthene	86		92		40-140	7		50
Chrysene	89		93		40-140	4		50
Acenaphthylene	77		88		40-140	13		50
Anthracene	90		101		40-140	12		50
Benzo(ghi)perylene	84		91		40-140	8		50
Fluorene	80		95		40-140	17		50
Phenanthrene	84		96		40-140	13		50
Dibenzo(a,h)anthracene	87		94		40-140	8		50
Indeno(1,2,3-cd)Pyrene	89		96		40-140	8		50



# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 Batch: WG602875-2 WG602875-3								
Pyrene	90		92		35-142	2		50
Biphenyl	71		84			17		50
4-Chloroaniline	34	Q	30	Q	40-140	13		50
2-Nitroaniline	91		96		47-134	5		50
3-Nitroaniline	53		44		26-129	19		50
4-Nitroaniline	86		99		41-125	14		50
Dibenzofuran	71		89		40-140	23		50
2-Methylnaphthalene	66		80		40-140	19		50
1,2,4,5-Tetrachlorobenzene	71		95		40-117	29		50
Acetophenone	58		67		14-144	14		50
2,4,6-Trichlorophenol	82		102		30-130	22		50
P-Chloro-M-Cresol	80		86		26-103	7		50
2-Chlorophenol	62		81		25-102	27		50
2,4-Dichlorophenol	74		95		30-130	25		50
2,4-Dimethylphenol	67		67		30-130	0		50
2-Nitrophenol	67		73		30-130	9		50
4-Nitrophenol	87		99		11-114	13		50
2,4-Dinitrophenol	65		76		4-130	16		50
4,6-Dinitro-o-cresol	88		97		10-130	10		50
Pentachlorophenol	84		91		17-109	8		50
Phenol	60		71		26-90	17		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 Batch: WG602875-2 WG602875-3								
2-Methylphenol	62		72		30-130.	15		50
3-Methylphenol/4-Methylphenol	67		72		30-130	7		50
2,4,5-Trichlorophenol	86		104		30-130	19		50
Benzoic Acid	0		0			NC		50
Benzyl Alcohol	58		65		40-140	11		50
Carbazole	85		92		54-128	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		90		25-120
Phenol-d6	71		88		10-120
Nitrobenzene-d5	58		66		23-120
2-Fluorobiphenyl	77		98		30-120
2,4,6-Tribromophenol	100		114		0-136
4-Terphenyl-d14	94		96		18-120

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-34,37-38 Batch: WG602883-2 WG602883-3								
Acenaphthene	92		84		31-137	9		50
1,2,4-Trichlorobenzene	74		71		38-107	4		50
Hexachlorobenzene	110		96		40-140	14		50
Bis(2-chloroethyl)ether	75		69		40-140	8		50
2-Chloronaphthalene	94		87		40-140	8		50
1,2-Dichlorobenzene	72		67		40-140	7		50
1,3-Dichlorobenzene	72		67		40-140	7		50
1,4-Dichlorobenzene	70		66		28-104	6		50
3,3'-Dichlorobenzidine	81		69		40-140	16		50
2,4-Dinitrotoluene	118	Q	105	Q	28-89	12		50
2,6-Dinitrotoluene	116		102		40-140	13		50
Fluoranthene	124		109		40-140	13		50
4-Chlorophenyl phenyl ether	103		93		40-140	10		50
4-Bromophenyl phenyl ether	115		100		40-140	14		50
Bis(2-chloroisopropyl)ether	76		70		40-140	8		50
Bis(2-chloroethoxy)methane	82		78		40-117	5		50
Hexachlorobutadiene	72		70		40-140	3		50
Hexachlorocyclopentadiene	53		51		40-140	4		50
Hexachloroethane	70		68		40-140	3		50
Isophorone	93		88		40-140	6		50
Naphthalene	78		71		40-140	9		50

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-34,37-38 Batch: WG602883-2 WG602883-3								
Nitrobenzene	84		78		40-140	7		50
NitrosoDiPhenylAmine(NDPA)/DPA	117		103			13		50
n-Nitrosodi-n-propylamine	87		81		32-121	7		50
Bis(2-Ethylhexyl)phthalate	116		104		40-140	11		50
Butyl benzyl phthalate	117		104		40-140	12		50
Di-n-butylphthalate	124		110		40-140	12		50
Di-n-octylphthalate	109		97		40-140	12		50
Diethyl phthalate	121		108		40-140	11		50
Dimethyl phthalate	114		100		40-140	13		50
Benzo(a)anthracene	120		106		40-140	12		50
Benzo(a)pyrene	108		96		40-140	12		50
Benzo(b)fluoranthene	127		100		40-140	24		50
Benzo(k)fluoranthene	110		109		40-140	1		50
Chrysene	108		99		40-140	9		50
Acenaphthylene	106		96		40-140	10		50
Anthracene	116		102		40-140	13		50
Benzo(ghi)perylene	109		96		40-140	13		50
Fluorene	107		95		40-140	12		50
Phenanthrene	106		94		40-140	12		50
Dibenzo(a,h)anthracene	115		101		40-140	13		50
Indeno(1,2,3-cd)Pyrene	115		102		40-140	12		50

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-34,37-38 Batch: WG602883-2 WG602883-3								
Pyrene	120		106		35-142	12		50
Biphenyl	87		81			7		50
4-Chloroaniline	54		47		40-140	14		50
2-Nitroaniline	112		100		47-134	11		50
3-Nitroaniline	83		71		26-129	16		50
4-Nitroaniline	121		105		41-125	14		50
Dibenzofuran	98		87		40-140	12		50
2-Methylnaphthalene	90		84		40-140	7		50
1,2,4,5-Tetrachlorobenzene	80		75		40-117	6		50
Acetophenone	89		83		14-144	7		50
2,4,6-Trichlorophenol	106		95		30-130	11		50
P-Chloro-M-Cresol	124	Q	109	Q	26-103	13		50
2-Chlorophenol	83		78		25-102	6		50
2,4-Dichlorophenol	98		92		30-130	6		50
2,4-Dimethylphenol	93		84		30-130	10		50
2-Nitrophenol	84		78		30-130	7		50
4-Nitrophenol	134	Q	119	Q	11-114	12		50
2,4-Dinitrophenol	83		80		4-130	4		50
4,6-Dinitro-o-cresol	118		103		10-130	14		50
Pentachlorophenol	109		97		17-109	12		50
Phenol	85		78		26-90	9		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-34,37-38 Batch: WG602883-2 WG602883-3								
2-Methylphenol	92		84		30-130.	9		50
3-Methylphenol/4-Methylphenol	96		89		30-130	8		50
2,4,5-Trichlorophenol	112		98		30-130	13		50
Benzoic Acid	42		43			2		50
Benzyl Alcohol	88		80		40-140	10		50
Carbazole	121		106		54-128	13		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	94		88		25-120
Phenol-d6	102		95		10-120
Nitrobenzene-d5	95		89		23-120
2-Fluorobiphenyl	101		94		30-120
2,4,6-Tribromophenol	113		103		0-136
4-Terphenyl-d14	<b>131</b>	Q	117		18-120

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 35 Batch: WG602993-2 WG602993-3								
1,2,4-Trichlorobenzene	45		48		39-98	6		30
Bis(2-chloroethyl)ether	61		64		40-140	5		30
1,2-Dichlorobenzene	46		49		40-140	6		30
1,3-Dichlorobenzene	44		47		40-140	7		30
1,4-Dichlorobenzene	45		47		36-97	4		30
3,3'-Dichlorobenzidine	66		65		40-140	2		30
2,4-Dinitrotoluene	97	Q	98	Q	24-96	1		30
2,6-Dinitrotoluene	92		94		40-140	2		30
4-Chlorophenyl phenyl ether	64		68		40-140	6		30
4-Bromophenyl phenyl ether	81		83		40-140	2		30
Bis(2-chloroisopropyl)ether	60		63		40-140	5		30
Bis(2-chloroethoxy)methane	62		65		40-140	5		30
Hexachlorocyclopentadiene	20	Q	20	Q	40-140	0		30
Isophorone	66		71		40-140	7		30
Nitrobenzene	74		82		40-140	10		30
NitrosoDiPhenylAmine(NDPA)/DPA	81		81		40-140	0		30
n-Nitrosodi-n-propylamine	66		68		29-132	3		30
Bis(2-Ethylhexyl)phthalate	93		96		40-140	3		30
Butyl benzyl phthalate	94		93		40-140	1		30
Di-n-butylphthalate	94		96		40-140	2		30
Di-n-octylphthalate	98		99		40-140	1		30

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 35 Batch: WG602993-2 WG602993-3								
Diethyl phthalate	87		87		40-140	0		30
Dimethyl phthalate	85		85		40-140	0		30
Biphenyl	51		55			8		30
4-Chloroaniline	57		56		40-140	2		30
2-Nitroaniline	86		90		52-143	5		30
3-Nitroaniline	52		51		25-145	2		30
4-Nitroaniline	94		94		51-143	0		30
Dibenzofuran	63		66		40-140	5		30
1,2,4,5-Tetrachlorobenzene	48		52		2-134	8		30
Acetophenone	70		74		39-129	6		30
2,4,6-Trichlorophenol	84		91		30-130	8		30
P-Chloro-M-Cresol	84		89		23-97	6		30
2-Chlorophenol	67		72		27-123	7		30
2,4-Dichlorophenol	75		81		30-130	8		30
2,4-Dimethylphenol	72		76		30-130	5		30
2-Nitrophenol	75		80		30-130	6		30
4-Nitrophenol	66		69		10-80	4		30
2,4-Dinitrophenol	113		114		20-130	1		30
4,6-Dinitro-o-cresol	109		107		20-164	2		30
Phenol	32		35		12-110	9		30
2-Methylphenol	64		67		30-130	5		30



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 35 Batch: WG602993-2 WG602993-3								
3-Methylphenol/4-Methylphenol	63		66		30-130	5		30
2,4,5-Trichlorophenol	90		92		30-130	2		30
Benzoic Acid	0		0			NC		30
Benzyl Alcohol	60		64			6		30
Carbazole	86		86		55-144	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	48		51		21-120
Phenol-d6	32		36		10-120
Nitrobenzene-d5	78		82		23-120
2-Fluorobiphenyl	64		69		15-120
2,4,6-Tribromophenol	95		94		10-120
4-Terphenyl-d14	87		85		41-149

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 35 Batch: WG602994-2 WG602994-3								
Acenaphthene	71		77		37-111	8		40
2-Chloronaphthalene	69		74		40-140	7		40
Fluoranthene	85		91		40-140	7		40
Hexachlorobutadiene	64		69		40-140	8		40
Naphthalene	69		73		40-140	6		40
Benzo(a)anthracene	91		99		40-140	8		40
Benzo(a)pyrene	92		100		40-140	8		40
Benzo(b)fluoranthene	89		98		40-140	10		40
Benzo(k)fluoranthene	102		108		40-140	6		40
Chrysene	88		96		40-140	9		40
Acenaphthylene	76		78		40-140	3		40
Anthracene	87		90		40-140	3		40
Benzo(ghi)perylene	92		100		40-140	8		40
Fluorene	74		82		40-140	10		40
Phenanthrene	73		71		40-140	3		40
Dibenzo(a,h)anthracene	94		102		40-140	8		40
Indeno(1,2,3-cd)Pyrene	94		103		40-140	9		40
Pyrene	82		87		26-127	6		40
2-Methylnaphthalene	70		74		40-140	6		40
Pentachlorophenol	66		74		9-103	11		40
Hexachlorobenzene	66		67		40-140	2		40

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 35 Batch: WG602994-2 WG602994-3								
Hexachloroethane	69		72		40-140	4		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		52		21-120
Phenol-d6	38		39		10-120
Nitrobenzene-d5	81		81		23-120
2-Fluorobiphenyl	71		74		15-120
2,4,6-Tribromophenol	66		78		10-120
4-Terphenyl-d14	83		88		41-149

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG602875-4 WG602875-5 QC Sample: L1307016-17  
Client ID: SB-27\_7-9

Acenaphthene	ND	1440	1000	69		1200	82		31-137	18		50
1,2,4-Trichlorobenzene	ND	1440	910	63		1100	75		38-107	19		50
Hexachlorobenzene	ND	1440	1300	90		1400	96		40-140	7		50
Bis(2-chloroethyl)ether	ND	1440	840	58		900	62		40-140	7		50
2-Chloronaphthalene	ND	1440	940	65		1100	75		40-140	16		50
1,2-Dichlorobenzene	ND	1440	850	59		920	63		40-140	8		50
1,3-Dichlorobenzene	ND	1440	830	58		950	65		40-140	13		50
1,4-Dichlorobenzene	ND	1440	850	59		940	64		28-104	10		50
3,3'-Dichlorobenzidine	ND	1440	750	52		620	42		40-140	19		50
2,4-Dinitrotoluene	ND	1440	1100	76		1300	89		28-89	17		50
2,6-Dinitrotoluene	ND	1440	1200	83		1300	89		40-140	8		50
Fluoranthene	82.J	1440	1300	90		1700	120		40-140	27		50
4-Chlorophenyl phenyl ether	ND	1440	1200	83		1300	89		40-140	8		50
4-Bromophenyl phenyl ether	ND	1440	1400	97		1400	96		40-140	0		50
Bis(2-chloroisopropyl)ether	ND	1440	790	55		620	42		40-140	24		50
Bis(2-chloroethoxy)methane	ND	1440	890	62		780	53		40-117	13		50
Hexachlorobutadiene	ND	1440	900	62		1200	82		40-140	29		50
Hexachlorocyclopentadiene	ND	1440	980	68		1100	75		40-140	12		50
Hexachloroethane	ND	1440	820	57		820	56		40-140	0		50
Isophorone	ND	1440	900	62		810	55		40-140	11		50
Naphthalene	ND	1440	900	62		1200	82		40-140	29		50

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG602875-4 WG602875-5 QC Sample: L1307016-17  
Client ID: SB-27\_7-9

Nitrobenzene	ND	1440	910	63		870	60		40-140	4		50
NitrosoDiPhenylAmine(NDPA)/DPA	ND	1440	1200	83		1200	82			0		50
n-Nitrosodi-n-propylamine	ND	1440	810	56		760	52		32-121	6		50
Bis(2-Ethylhexyl)phthalate	ND	1440	1200	83		1400	96		40-140	15		50
Butyl benzyl phthalate	ND	1440	1200	83		1200	82		40-140	0		50
Di-n-butylphthalate	ND	1440	1200	83		1200	82		40-140	0		50
Di-n-octylphthalate	ND	1440	1200	83		1400	96		40-140	15		50
Diethyl phthalate	ND	1440	1200	83		1200	82		40-140	0		50
Dimethyl phthalate	ND	1440	1200	83		1200	82		40-140	0		50
Benzo(a)anthracene	ND	1440	1300	90		1400	96		40-140	7		50
Benzo(a)pyrene	ND	1440	1200	83		1300	89		40-140	8		50
Benzo(b)fluoranthene	ND	1440	1200	83		1300	89		40-140	8		50
Benzo(k)fluoranthene	ND	1440	1200	83		1200	82		40-140	0		50
Chrysene	ND	1440	1200	83		1300	89		40-140	8		50
Acenaphthylene	ND	1440	1000	69		1200	82		40-140	18		50
Anthracene	ND	1440	1200	83		1400	96		40-140	15		50
Benzo(ghi)perylene	ND	1440	1200	83		1400	96		40-140	15		50
Fluorene	ND	1440	1100	76		1300	89		40-140	17		50
Phenanthrene	92.J	1440	1200	83		2000	140		40-140	50		50
Dibenzo(a,h)anthracene	ND	1440	1200	83		1400	96		40-140	15		50
Indeno(1,2,3-cd)Pyrene	ND	1440	1200	83		1500	100		40-140	22		50

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG602875-4 WG602875-5 QC Sample: L1307016-17  
Client ID: SB-27\_7-9

Pyrene	68.J	1440	1300	90		1600	110		35-142	21		50
Biphenyl	ND	1440	1000	69		1100	75			10		50
4-Chloroaniline	ND	1440	540	37	Q	420	29	Q	40-140	25		50
2-Nitroaniline	ND	1440	1100	76		1300	89		47-134	17		50
3-Nitroaniline	ND	1440	760	53		730	50		26-129	4		50
4-Nitroaniline	ND	1440	1100	76		1200	82		41-125	9		50
Dibenzofuran	ND	1440	1100	76		1200	82		40-140	9		50
2-Methylnaphthalene	ND	1440	940	65		1100	75		40-140	16		50
1,2,4,5-Tetrachlorobenzene	ND	1440	1100	76		1200	82		40-117	9		50
Acetophenone	ND	1440	850	59		850	58		14-144	0		50
2,4,6-Trichlorophenol	ND	1440	1200	83		1400	96		30-130	15		50
P-Chloro-M-Cresol	ND	1440	1200	83		1200	82		26-103	0		50
2-Chlorophenol	ND	1440	950	66		1000	68		25-102	5		50
2,4-Dichlorophenol	ND	1440	1000	69		1300	89		30-130	26		50
2,4-Dimethylphenol	ND	1440	910	63		880	60		30-130	3		50
2-Nitrophenol	ND	1440	1000	69		1000	68		30-130	0		50
4-Nitrophenol	ND	1440	980	68		1000	68		11-114	2		50
2,4-Dinitrophenol	ND	1440	510J	35		ND	0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1440	1300	90		880	60		10-130	39		50
Pentachlorophenol	ND	1440	1200	83		1100	75		17-109	9		50
Phenol	ND	1440	870	60		950	65		26-90	9		50

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG602875-4 WG602875-5 QC Sample: L1307016-17  
Client ID: SB-27\_7-9

2-Methylphenol	ND	1440	900	62		870	60		30-130.	3		50
3-Methylphenol/4-Methylphenol	ND	1440	900	62		900	62		30-130	0		50
2,4,5-Trichlorophenol	ND	1440	1200	83		1400	96		30-130	15		50
Benzoic Acid	ND	1440	ND	0		ND	0			NC		50
Benzyl Alcohol	ND	1440	840	58		820	56		40-140	2		50
Carbazole	ND	1440	1200	83		1300	89		54-128	8		50

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	109		101		0-136
2-Fluorobiphenyl	69		86		30-120
2-Fluorophenol	72		82		25-120
4-Terphenyl-d14	87		71		18-120
Nitrobenzene-d5	67		59		23-120
Phenol-d6	72		81		10-120

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-34,37-38 QC Batch ID: WG602883-4 WG602883-5 QC Sample: L1307016-27 Client ID: SB-23\_0-2

Acenaphthene	ND	1620	1400	86		1200	76		31-137	15		50
1,2,4-Trichlorobenzene	ND	1620	1200	74		1000	63		38-107	18		50
Hexachlorobenzene	ND	1620	1600	98		1500	94		40-140	6		50
Bis(2-chloroethyl)ether	ND	1620	1300	80		1000	63		40-140	26		50
2-Chloronaphthalene	ND	1620	1400	86		1200	76		40-140	15		50
1,2-Dichlorobenzene	ND	1620	1200	74		1000	63		40-140	18		50
1,3-Dichlorobenzene	ND	1620	1200	74		980	62		40-140	20		50
1,4-Dichlorobenzene	ND	1620	1200	74		1000	63		28-104	18		50
3,3'-Dichlorobenzidine	ND	1620	1100	68		940	59		40-140	16		50
2,4-Dinitrotoluene	ND	1620	1700	100	Q	1600	100	Q	28-89	6		50
2,6-Dinitrotoluene	ND	1620	1700	100		1600	100		40-140	6		50
Fluoranthene	260	1620	2300	130		2000	110		40-140	14		50
4-Chlorophenyl phenyl ether	ND	1620	1500	92		1400	88		40-140	7		50
4-Bromophenyl phenyl ether	ND	1620	1600	98		1500	94		40-140	6		50
Bis(2-chloroisopropyl)ether	ND	1620	1200	74		1000	63		40-140	18		50
Bis(2-chloroethoxy)methane	ND	1620	1300	80		1100	69		40-117	17		50
Hexachlorobutadiene	ND	1620	1200	74		1000	63		40-140	18		50
Hexachlorocyclopentadiene	ND	1620	730	45		660	42		40-140	10		50
Hexachloroethane	ND	1620	1200	74		980	62		40-140	20		50
Isophorone	ND	1620	1500	92		1200	76		40-140	22		50
Naphthalene	ND	1620	1300	80		1100	69		40-140	17		50



# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-34,37-38 QC Batch ID: WG602883-4 WG602883-5 QC Sample: L1307016-27 Client ID: SB-23\_0-2

Nitrobenzene	ND	1620	1400	86		1200	76		40-140	15		50
NitrosoDiPhenylAmine(NDPA)/DPA	ND	1620	1700	100		1600	100			6		50
n-Nitrosodi-n-propylamine	ND	1620	1400	86		1200	76		32-121	15		50
Bis(2-Ethylhexyl)phthalate	80.J	1620	1700	100		1600	100		40-140	6		50
Butyl benzyl phthalate	ND	1620	1700	100		1600	100		40-140	6		50
Di-n-butylphthalate	ND	1620	1800	110		1700	110		40-140	6		50
Di-n-octylphthalate	ND	1620	1600	98		1500	94		40-140	6		50
Diethyl phthalate	ND	1620	1700	100		1600	100		40-140	6		50
Dimethyl phthalate	ND	1620	1600	98		1500	94		40-140	6		50
Benzo(a)anthracene	130	1620	2000	120		1800	110		40-140	11		50
Benzo(a)pyrene	160	1620	1800	110		1600	100		40-140	12		50
Benzo(b)fluoranthene	150	1620	1900	100		1900	110		40-140	0		50
Benzo(k)fluoranthene	72.J	1620	1900	110		1600	89		40-140	17		50
Chrysene	130	1620	1800	100		1600	93		40-140	12		50
Acenaphthylene	ND	1620	1600	98		1400	88		40-140	13		50
Anthracene	ND	1620	1700	100		1500	94		40-140	13		50
Benzo(ghi)perylene	83.J	1620	1800	110		1700	110		40-140	6		50
Fluorene	ND	1620	1600	98		1400	88		40-140	13		50
Phenanthrene	120	1620	1800	110		1600	100		40-140	12		50
Dibenzo(a,h)anthracene	ND	1620	1800	110		1700	110		40-140	6		50
Indeno(1,2,3-cd)Pyrene	70.J	1620	1900	120		1800	110		40-140	5		50

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-34,37-38 QC Batch ID: WG602883-4 WG602883-5 QC Sample: L1307016-27 Client ID: SB-23\_0-2

Pyrene	250	1620	2200	120		1900	100		35-142	15		50
Biphenyl	ND	1620	1400	86		1200	76			15		50
4-Chloroaniline	ND	1620	820	50		670	42		40-140	20		50
2-Nitroaniline	ND	1620	1600	98		1500	94		47-134	6		50
3-Nitroaniline	ND	1620	1300	80		1200	76		26-129	8		50
4-Nitroaniline	ND	1620	1700	100		1600	100		41-125	6		50
Dibenzofuran	ND	1620	1400	86		1300	82		40-140	7		50
2-Methylnaphthalene	ND	1620	1400	86		1200	76		40-140	15		50
1,2,4,5-Tetrachlorobenzene	ND	1620	1300	80		1100	69		40-117	17		50
Acetophenone	ND	1620	1500	92		1200	76		14-144	22		50
2,4,6-Trichlorophenol	ND	1620	1500	92		1400	88		30-130	7		50
P-Chloro-M-Cresol	ND	1620	1800	110	Q	1600	100		26-103	12		50
2-Chlorophenol	ND	1620	1400	86		1100	69		25-102	24		50
2,4-Dichlorophenol	ND	1620	1600	98		1300	82		30-130	21		50
2,4-Dimethylphenol	ND	1620	1200	74		1100	69		30-130	9		50
2-Nitrophenol	ND	1620	1400	86		1100	69		30-130	24		50
4-Nitrophenol	ND	1620	1700	100		1500	94		11-114	13		50
2,4-Dinitrophenol	ND	1620	ND	0	Q	ND	0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1620	780	48		600	38		10-130	26		50
Pentachlorophenol	ND	1620	1300	80		1200	76		17-109	8		50
Phenol	ND	1620	1300	80		1100	69		26-90	17		50

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-34,37-38 QC Batch ID: WG602883-4 WG602883-5 QC Sample: L1307016-27 Client ID: SB-23\_0-2

2-Methylphenol	ND	1620	1400	86		1100	69		30-130.	24		50
3-Methylphenol/4-Methylphenol	ND	1620	1400	86		1200	76		30-130	15		50
2,4,5-Trichlorophenol	ND	1620	1700	100		1500	94		30-130	13		50
Benzoic Acid	ND	1620	ND	0		ND	0			NC		50
Benzyl Alcohol	ND	1620	1400	86		1100	69		40-140	24		50
Carbazole	ND	1620	1800	110		1600	100		54-128	12		50

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	99		90		0-136
2-Fluorobiphenyl	92		74		30-120
2-Fluorophenol	89		72		25-120
4-Terphenyl-d14	104		87		18-120
Nitrobenzene-d5	94		81		23-120
Phenol-d6	96		80		10-120

# PCBS

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-01  
**Client ID:** SB-12\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 13:35  
**Analyst:** KB  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 15:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.5	7.41	1
Aroclor 1221	ND		ug/kg	37.5	11.3	1
Aroclor 1232	ND		ug/kg	37.5	7.97	1
Aroclor 1242	ND		ug/kg	37.5	7.12	1
Aroclor 1248	ND		ug/kg	37.5	4.54	1
Aroclor 1254	ND		ug/kg	37.5	5.91	1
Aroclor 1260	ND		ug/kg	37.5	6.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	76		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	76		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-02  
**Client ID:** SB-12\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 13:48  
**Analyst:** KB  
**Percent Solids:** 89%

**Date Collected:** 04/18/13 15:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.2	7.15	1
Aroclor 1221	ND		ug/kg	36.2	10.9	1
Aroclor 1232	ND		ug/kg	36.2	7.69	1
Aroclor 1242	ND		ug/kg	36.2	6.87	1
Aroclor 1248	ND		ug/kg	36.2	4.38	1
Aroclor 1254	ND		ug/kg	36.2	5.71	1
Aroclor 1260	ND		ug/kg	36.2	6.28	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	74		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-03  
**Client ID:** SB-9\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 14:01  
**Analyst:** KB  
**Percent Solids:** 96%

**Date Collected:** 04/18/13 16:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	33.7	6.66	1
Aroclor 1221	ND		ug/kg	33.7	10.2	1
Aroclor 1232	ND		ug/kg	33.7	7.17	1
Aroclor 1242	246		ug/kg	33.7	6.40	1
Aroclor 1248	ND		ug/kg	33.7	4.08	1
Aroclor 1254	101		ug/kg	33.7	5.32	1
Aroclor 1260	39.8		ug/kg	33.7	5.86	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	74		30-150
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	81		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-04  
**Client ID:** SB-9\_3-5  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 14:19  
**Analyst:** KB  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.6	7.42	1
Aroclor 1221	ND		ug/kg	37.6	11.3	1
Aroclor 1232	ND		ug/kg	37.6	7.98	1
Aroclor 1242	ND		ug/kg	37.6	7.13	1
Aroclor 1248	ND		ug/kg	37.6	4.54	1
Aroclor 1254	ND		ug/kg	37.6	5.92	1
Aroclor 1260	ND		ug/kg	37.6	6.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	50		30-150
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	57		30-150



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-05      D  
**Client ID:** SB-13\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 10:27  
**Analyst:** KB  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	195	38.6	5
Aroclor 1221	ND		ug/kg	195	58.9	5
Aroclor 1232	ND		ug/kg	195	41.5	5
Aroclor 1242	490		ug/kg	195	37.1	5
Aroclor 1248	ND		ug/kg	195	23.6	5
Aroclor 1254	1100		ug/kg	195	30.8	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	82		30-150
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	94		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-05      D  
**Client ID:** SB-13\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 10:27  
**Analyst:** KB  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1260	199		ug/kg	195	33.9	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	82		30-150
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	94		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-06  
**Client ID:** SB-13\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 14:45  
**Analyst:** KB  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 16:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.0	7.30	1
Aroclor 1221	ND		ug/kg	37.0	11.2	1
Aroclor 1232	ND		ug/kg	37.0	7.85	1
Aroclor 1242	ND		ug/kg	37.0	7.02	1
Aroclor 1248	ND		ug/kg	37.0	4.47	1
Aroclor 1254	ND		ug/kg	37.0	5.83	1
Aroclor 1260	ND		ug/kg	37.0	6.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	69		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-07  
**Client ID:** SB-18\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 14:58  
**Analyst:** KB  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:45  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.6	7.42	1
Aroclor 1221	ND		ug/kg	37.6	11.3	1
Aroclor 1232	ND		ug/kg	37.6	7.98	1
Aroclor 1242	ND		ug/kg	37.6	7.13	1
Aroclor 1248	ND		ug/kg	37.6	4.55	1
Aroclor 1254	ND		ug/kg	37.6	5.92	1
Aroclor 1260	ND		ug/kg	37.6	6.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	61		30-150
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	74		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-08  
**Client ID:** SB-18\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 16:04  
**Analyst:** KB  
**Percent Solids:** 87%

**Date Collected:** 04/18/13 16:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.3	7.38	1
Aroclor 1221	ND		ug/kg	37.3	11.3	1
Aroclor 1232	ND		ug/kg	37.3	7.93	1
Aroclor 1242	ND		ug/kg	37.3	7.09	1
Aroclor 1248	ND		ug/kg	37.3	4.52	1
Aroclor 1254	ND		ug/kg	37.3	5.89	1
Aroclor 1260	ND		ug/kg	37.3	6.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	67		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	70		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-09  
**Client ID:** SB-8\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 16:17  
**Analyst:** KB  
**Percent Solids:** 79%

**Date Collected:** 04/18/13 17:05  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	41.1	8.12	1
Aroclor 1221	ND		ug/kg	41.1	12.4	1
Aroclor 1232	ND		ug/kg	41.1	8.73	1
Aroclor 1242	ND		ug/kg	41.1	7.80	1
Aroclor 1248	ND		ug/kg	41.1	4.97	1
Aroclor 1254	ND		ug/kg	41.1	6.48	1
Aroclor 1260	ND		ug/kg	41.1	7.13	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	70		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	68		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-10  
**Client ID:** SB-8\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 16:30  
**Analyst:** KB  
**Percent Solids:** 90%

**Date Collected:** 04/18/13 17:15  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.9	7.28	1
Aroclor 1221	ND		ug/kg	36.9	11.1	1
Aroclor 1232	ND		ug/kg	36.9	7.83	1
Aroclor 1242	ND		ug/kg	36.9	7.00	1
Aroclor 1248	ND		ug/kg	36.9	4.46	1
Aroclor 1254	ND		ug/kg	36.9	5.81	1
Aroclor 1260	ND		ug/kg	36.9	6.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	68		30-150
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	74		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-11 D  
**Client ID:** SB-28\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 10:40  
**Analyst:** KB  
**Percent Solids:** 75%

**Date Collected:** 04/18/13 08:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	209	41.3	5
Aroclor 1221	ND		ug/kg	209	63.1	5
Aroclor 1232	ND		ug/kg	209	44.5	5
Aroclor 1242	ND		ug/kg	209	39.7	5
Aroclor 1248	ND		ug/kg	209	25.3	5
Aroclor 1254	1590		ug/kg	209	33.0	5
Aroclor 1260	546		ug/kg	209	36.3	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	78		30-150
Decachlorobiphenyl	84		30-150
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	94		30-150



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-12  
**Client ID:** SB-28\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 16:56  
**Analyst:** KB  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 08:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.1	7.13	1
Aroclor 1221	ND		ug/kg	36.1	10.9	1
Aroclor 1232	ND		ug/kg	36.1	7.67	1
Aroclor 1242	ND		ug/kg	36.1	6.85	1
Aroclor 1248	ND		ug/kg	36.1	4.37	1
Aroclor 1254	ND		ug/kg	36.1	5.69	1
Aroclor 1260	ND		ug/kg	36.1	6.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	63		30-150
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	72		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-13  
**Client ID:** SB-25\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 17:10  
**Analyst:** KB  
**Percent Solids:** 87%

**Date Collected:** 04/18/13 09:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.6	7.23	1
Aroclor 1221	ND		ug/kg	36.6	11.0	1
Aroclor 1232	ND		ug/kg	36.6	7.77	1
Aroclor 1242	21.6	J	ug/kg	36.6	6.94	1
Aroclor 1248	ND		ug/kg	36.6	4.43	1
Aroclor 1254	ND		ug/kg	36.6	5.77	1
Aroclor 1260	ND		ug/kg	36.6	6.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	60		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-14  
**Client ID:** SB-25\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 17:23  
**Analyst:** KB  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.1	7.52	1
Aroclor 1221	ND		ug/kg	38.1	11.5	1
Aroclor 1232	ND		ug/kg	38.1	8.09	1
Aroclor 1242	ND		ug/kg	38.1	7.22	1
Aroclor 1248	ND		ug/kg	38.1	4.61	1
Aroclor 1254	ND		ug/kg	38.1	6.00	1
Aroclor 1260	ND		ug/kg	38.1	6.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	62		30-150
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	68		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-15  
**Client ID:** SB-25\_7-9\_FIELD-DUP  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 17:36  
**Analyst:** KB  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.7	7.25	1
Aroclor 1221	ND		ug/kg	36.7	11.1	1
Aroclor 1232	ND		ug/kg	36.7	7.80	1
Aroclor 1242	ND		ug/kg	36.7	6.97	1
Aroclor 1248	ND		ug/kg	36.7	4.44	1
Aroclor 1254	ND		ug/kg	36.7	5.79	1
Aroclor 1260	ND		ug/kg	36.7	6.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	55		30-150
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	59		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-16  
**Client ID:** SB-27\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 17:49  
**Analyst:** KB  
**Percent Solids:** 83%

**Date Collected:** 04/18/13 14:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	77.7	15.3	2
Aroclor 1221	ND		ug/kg	77.7	23.4	2
Aroclor 1232	ND		ug/kg	77.7	16.5	2
Aroclor 1242	ND		ug/kg	77.7	14.7	2
Aroclor 1248	ND		ug/kg	77.7	9.40	2
Aroclor 1254	ND		ug/kg	77.7	12.2	2
Aroclor 1260	ND		ug/kg	77.7	13.5	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	51		30-150
Decachlorobiphenyl	46		30-150
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	33		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-17  
**Client ID:** SB-27\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 18:02  
**Analyst:** KB  
**Percent Solids:** 90%

**Date Collected:** 04/18/13 14:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.2	6.95	1
Aroclor 1221	ND		ug/kg	35.2	10.6	1
Aroclor 1232	ND		ug/kg	35.2	7.48	1
Aroclor 1242	ND		ug/kg	35.2	6.68	1
Aroclor 1248	ND		ug/kg	35.2	4.26	1
Aroclor 1254	ND		ug/kg	35.2	5.55	1
Aroclor 1260	ND		ug/kg	35.2	6.11	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	60		30-150
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	72		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-18      D  
**Client ID:** SB-10\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 10:53  
**Analyst:** KB  
**Percent Solids:** 89%

**Date Collected:** 04/18/13 15:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	1840	364.	50
Aroclor 1221	ND		ug/kg	1840	556.	50
Aroclor 1232	ND		ug/kg	1840	392.	50
Aroclor 1248	ND		ug/kg	1840	223.	50
Aroclor 1254	ND		ug/kg	1840	291.	50
Aroclor 1260	ND		ug/kg	1840	320.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-18      D  
**Client ID:** SB-10\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 10:53  
**Analyst:** KB  
**Percent Solids:** 89%

**Date Collected:** 04/18/13 15:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1242	12500		ug/kg	1840	350.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-19  
**Client ID:** SB-10\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 18:28  
**Analyst:** KB  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 15:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.8	7.27	1
Aroclor 1221	ND		ug/kg	36.8	11.1	1
Aroclor 1232	ND		ug/kg	36.8	7.82	1
Aroclor 1242	ND		ug/kg	36.8	6.99	1
Aroclor 1248	ND		ug/kg	36.8	4.45	1
Aroclor 1254	ND		ug/kg	36.8	5.80	1
Aroclor 1260	ND		ug/kg	36.8	6.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	93		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-20      D  
**Client ID:** SB-15\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 11:06  
**Analyst:** KB  
**Percent Solids:** 93%

**Date Collected:** 04/19/13 08:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 08:39  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	70.6	13.9	2
Aroclor 1221	ND		ug/kg	70.6	21.3	2
Aroclor 1232	ND		ug/kg	70.6	15.0	2
Aroclor 1242	ND		ug/kg	70.6	13.4	2
Aroclor 1248	ND		ug/kg	70.6	8.54	2
Aroclor 1254	ND		ug/kg	70.6	11.1	2
Aroclor 1260	655		ug/kg	70.6	12.2	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	95		30-150
Decachlorobiphenyl	97		30-150
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	107		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-21  
**Client ID:** SB-15\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 17:21  
**Analyst:** KB  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 09:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 11:46  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.1	7.52	1
Aroclor 1221	ND		ug/kg	38.1	11.5	1
Aroclor 1232	ND		ug/kg	38.1	8.09	1
Aroclor 1242	ND		ug/kg	38.1	7.23	1
Aroclor 1248	ND		ug/kg	38.1	4.61	1
Aroclor 1254	ND		ug/kg	38.1	6.00	1
Aroclor 1260	ND		ug/kg	38.1	6.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	88		30-150
Decachlorobiphenyl	100		30-150
2,4,5,6-Tetrachloro-m-xylene	86		30-150
Decachlorobiphenyl	82		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-22      D  
**Client ID:** SB-16\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 10:13  
**Analyst:** KB  
**Percent Solids:** 76%

**Date Collected:** 04/19/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 11:46  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	213	42.1	5
Aroclor 1221	ND		ug/kg	213	64.3	5
Aroclor 1232	ND		ug/kg	213	45.3	5
Aroclor 1242	ND		ug/kg	213	40.5	5
Aroclor 1248	ND		ug/kg	213	25.8	5
Aroclor 1254	ND		ug/kg	213	33.6	5
Aroclor 1260	ND		ug/kg	213	37.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	86		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	102		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-23  
**Client ID:** SB-16\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 17:55  
**Analyst:** KB  
**Percent Solids:** 88%

**Date Collected:** 04/19/13 09:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 11:46  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.8	7.48	1
Aroclor 1221	ND		ug/kg	37.8	11.4	1
Aroclor 1232	ND		ug/kg	37.8	8.04	1
Aroclor 1242	ND		ug/kg	37.8	7.18	1
Aroclor 1248	ND		ug/kg	37.8	4.58	1
Aroclor 1254	ND		ug/kg	37.8	5.97	1
Aroclor 1260	ND		ug/kg	37.8	6.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	40		30-150
Decachlorobiphenyl	32		30-150
2,4,5,6-Tetrachloro-m-xylene	48		30-150
Decachlorobiphenyl	44		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-24  
**Client ID:** SB-16\_7-9-FIELD-DUP  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 18:12  
**Analyst:** KB  
**Percent Solids:** 92%

**Date Collected:** 04/19/13 09:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 11:46  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.1	6.93	1
Aroclor 1221	ND		ug/kg	35.1	10.6	1
Aroclor 1232	ND		ug/kg	35.1	7.45	1
Aroclor 1242	ND		ug/kg	35.1	6.66	1
Aroclor 1248	ND		ug/kg	35.1	4.24	1
Aroclor 1254	ND		ug/kg	35.1	5.53	1
Aroclor 1260	ND		ug/kg	35.1	6.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	85		30-150
Decachlorobiphenyl	36		30-150
2,4,5,6-Tetrachloro-m-xylene	88		30-150
Decachlorobiphenyl	43		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-25  
**Client ID:** SB-24\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 18:29  
**Analyst:** KB  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 10:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/22/13 11:46  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.7	7.64	1
Aroclor 1221	ND		ug/kg	38.7	11.7	1
Aroclor 1232	ND		ug/kg	38.7	8.22	1
Aroclor 1242	ND		ug/kg	38.7	7.35	1
Aroclor 1248	ND		ug/kg	38.7	4.68	1
Aroclor 1254	ND		ug/kg	38.7	6.10	1
Aroclor 1260	ND		ug/kg	38.7	6.72	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	90		30-150
Decachlorobiphenyl	33		30-150
2,4,5,6-Tetrachloro-m-xylene	94		30-150
Decachlorobiphenyl	45		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-26  
**Client ID:** SB-24\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 15:00  
**Analyst:** KB  
**Percent Solids:** 83%

**Date Collected:** 04/19/13 10:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	39.7	7.85	1
Aroclor 1221	ND		ug/kg	39.7	12.0	1
Aroclor 1232	ND		ug/kg	39.7	8.44	1
Aroclor 1242	ND		ug/kg	39.7	7.54	1
Aroclor 1248	ND		ug/kg	39.7	4.81	1
Aroclor 1260	86.6		ug/kg	39.7	6.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	54		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	57		30-150



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-26  
**Client ID:** SB-24\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 15:00  
**Analyst:** KB  
**Percent Solids:** 83%

**Date Collected:** 04/19/13 10:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	109		ug/kg	39.7	6.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	54		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	57		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-27  
**Client ID:** SB-23\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 15:13  
**Analyst:** KB  
**Percent Solids:** 82%

**Date Collected:** 04/19/13 10:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.5	7.60	1
Aroclor 1221	ND		ug/kg	38.5	11.6	1
Aroclor 1232	ND		ug/kg	38.5	8.18	1
Aroclor 1242	ND		ug/kg	38.5	7.30	1
Aroclor 1248	ND		ug/kg	38.5	4.66	1
Aroclor 1254	109		ug/kg	38.5	6.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	67		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-27  
**Client ID:** SB-23\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 15:13  
**Analyst:** KB  
**Percent Solids:** 82%

**Date Collected:** 04/19/13 10:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1260	37.2	J	ug/kg	38.5	6.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	67		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-28  
**Client ID:** SB-23\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 15:26  
**Analyst:** KB  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 10:55  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.7	7.45	1
Aroclor 1221	ND		ug/kg	37.7	11.4	1
Aroclor 1232	ND		ug/kg	37.7	8.01	1
Aroclor 1242	ND		ug/kg	37.7	7.16	1
Aroclor 1248	ND		ug/kg	37.7	4.56	1
Aroclor 1254	ND		ug/kg	37.7	5.95	1
Aroclor 1260	ND		ug/kg	37.7	6.55	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	70		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-29  
**Client ID:** SB-17\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/26/13 13:22  
**Analyst:** KB  
**Percent Solids:** 93%

**Date Collected:** 04/19/13 11:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/24/13 14:26  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/24/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/24/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	33.9	6.70	1
Aroclor 1221	ND		ug/kg	33.9	10.2	1
Aroclor 1232	ND		ug/kg	33.9	7.20	1
Aroclor 1242	ND		ug/kg	33.9	6.43	1
Aroclor 1248	ND		ug/kg	33.9	4.10	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	67		30-150
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	95		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-29  
**Client ID:** SB-17\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/26/13 13:22  
**Analyst:** KB  
**Percent Solids:** 93%

**Date Collected:** 04/19/13 11:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/24/13 14:26  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/24/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/24/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	15.5	J	ug/kg	33.9	5.34	1
Aroclor 1260	22.3	J	ug/kg	33.9	5.88	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	67		30-150
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	95		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-30  
**Client ID:** SB-17\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 15:52  
**Analyst:** KB  
**Percent Solids:** 82%

**Date Collected:** 04/19/13 11:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	39.0	7.70	1
Aroclor 1221	ND		ug/kg	39.0	11.8	1
Aroclor 1232	ND		ug/kg	39.0	8.28	1
Aroclor 1242	ND		ug/kg	39.0	7.40	1
Aroclor 1248	ND		ug/kg	39.0	4.72	1
Aroclor 1254	ND		ug/kg	39.0	6.14	1
Aroclor 1260	ND		ug/kg	39.0	6.76	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	56		30-150
Decachlorobiphenyl	54		30-150
2,4,5,6-Tetrachloro-m-xylene	48		30-150
Decachlorobiphenyl	55		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-31      D  
**Client ID:** SB-11\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 16:46  
**Analyst:** KB  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 11:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	375	74.1	10
Aroclor 1221	ND		ug/kg	375	113.	10
Aroclor 1232	ND		ug/kg	375	79.7	10
Aroclor 1242	4420		ug/kg	375	71.2	10
Aroclor 1248	ND		ug/kg	375	45.4	10
Aroclor 1254	1130		ug/kg	375	59.2	10
Aroclor 1260	419		ug/kg	375	65.1	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-32  
**Client ID:** SB-11\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 16:18  
**Analyst:** KB  
**Percent Solids:** 91%

**Date Collected:** 04/19/13 11:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	34.6	6.84	1
Aroclor 1221	ND		ug/kg	34.6	10.4	1
Aroclor 1232	ND		ug/kg	34.6	7.35	1
Aroclor 1242	ND		ug/kg	34.6	6.57	1
Aroclor 1248	ND		ug/kg	34.6	4.19	1
Aroclor 1254	ND		ug/kg	34.6	5.46	1
Aroclor 1260	ND		ug/kg	34.6	6.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	54		30-150
2,4,5,6-Tetrachloro-m-xylene	58		30-150
Decachlorobiphenyl	49		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-33  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 16:31  
**Analyst:** KB  
**Percent Solids:** 79%

**Date Collected:** 04/19/13 12:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	40.2	7.94	1
Aroclor 1221	ND		ug/kg	40.2	12.1	1
Aroclor 1232	ND		ug/kg	40.2	8.54	1
Aroclor 1242	98.2		ug/kg	40.2	7.63	1
Aroclor 1248	ND		ug/kg	40.2	4.86	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	52		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	61		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-33  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 16:31  
**Analyst:** KB  
**Percent Solids:** 79%

**Date Collected:** 04/19/13 12:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	279		ug/kg	40.2	6.34	1
Aroclor 1260	209		ug/kg	40.2	6.98	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	52		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	61		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-34  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/26/13 10:12  
**Analyst:** KB  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 12:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.8	7.47	1
Aroclor 1221	ND		ug/kg	37.8	11.4	1
Aroclor 1232	ND		ug/kg	37.8	8.03	1
Aroclor 1242	ND		ug/kg	37.8	7.17	1
Aroclor 1248	ND		ug/kg	37.8	4.57	1
Aroclor 1260	127		ug/kg	37.8	6.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	33		30-150
Decachlorobiphenyl	<b>22</b>	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	30		30-150
Decachlorobiphenyl	35		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-34  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/26/13 10:12  
**Analyst:** KB  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 12:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	186		ug/kg	37.8	5.96	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	33		30-150
Decachlorobiphenyl	<b>22</b>	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	30		30-150
Decachlorobiphenyl	35		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-35  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/23/13 03:29  
**Analyst:** KB

**Date Collected:** 04/19/13 00:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/21/13 11:11  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/22/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.083	0.055	1
Aroclor 1221	ND		ug/l	0.083	0.053	1
Aroclor 1232	ND		ug/l	0.083	0.031	1
Aroclor 1242	ND		ug/l	0.083	0.060	1
Aroclor 1248	ND		ug/l	0.083	0.051	1
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	88		30-150
Decachlorobiphenyl	60		30-150
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	63		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-37      D  
**Client ID:** SB-26\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 16:59  
**Analyst:** KB  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 17:25  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	753	149.	20
Aroclor 1221	ND		ug/kg	753	227.	20
Aroclor 1232	ND		ug/kg	753	160.	20
Aroclor 1242	3840		ug/kg	753	143.	20
Aroclor 1248	ND		ug/kg	753	91.1	20
Aroclor 1260	1650		ug/kg	753	131.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-37      D  
**Client ID:** SB-26\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/24/13 16:59  
**Analyst:** KB  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 17:25  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	1590		ug/kg	753	119.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150
Decachlorobiphenyl	0	Q	30-150



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-38  
**Client ID:** SB-26\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/22/13 18:29  
**Analyst:** KB  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 17:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/20/13 10:08  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/21/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.7	7.26	1
Aroclor 1221	ND		ug/kg	36.7	11.1	1
Aroclor 1232	ND		ug/kg	36.7	7.80	1
Aroclor 1242	ND		ug/kg	36.7	6.97	1
Aroclor 1248	ND		ug/kg	36.7	4.44	1
Aroclor 1254	ND		ug/kg	36.7	5.79	1
Aroclor 1260	ND		ug/kg	36.7	6.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	55		30-150
Decachlorobiphenyl	58		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	63		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A  
 Analytical Date: 04/22/13 16:45  
 Analyst: KB

Extraction Method: EPA 3546  
 Extraction Date: 04/20/13 10:08  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/21/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/21/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 26-28,30-34,37-38 Batch: WG602873-1					
Aroclor 1016	ND		ug/kg	32.5	6.42
Aroclor 1221	ND		ug/kg	32.5	9.80
Aroclor 1232	ND		ug/kg	32.5	6.90
Aroclor 1242	ND		ug/kg	32.5	6.16
Aroclor 1248	ND		ug/kg	32.5	3.93
Aroclor 1254	ND		ug/kg	32.5	5.12
Aroclor 1260	ND		ug/kg	32.5	5.64

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	70		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	78		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 04/23/13 02:23  
 Analyst: KB

Extraction Method: EPA 3510C  
 Extraction Date: 04/21/13 11:11  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/22/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 35 Batch: WG602927-1					
Aroclor 1016	ND		ug/l	0.083	0.055
Aroclor 1221	ND		ug/l	0.083	0.053
Aroclor 1232	ND		ug/l	0.083	0.031
Aroclor 1242	ND		ug/l	0.083	0.060
Aroclor 1248	ND		ug/l	0.083	0.051
Aroclor 1254	ND		ug/l	0.083	0.034
Aroclor 1260	ND		ug/l	0.083	0.032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	89		30-150
Decachlorobiphenyl	104		30-150
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	98		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A  
 Analytical Date: 04/23/13 15:11  
 Analyst: KB

Extraction Method: EPA 3546  
 Extraction Date: 04/22/13 08:39  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/22/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-20 Batch: WG603007-1					
Aroclor 1016	ND		ug/kg	32.5	6.42
Aroclor 1221	ND		ug/kg	32.5	9.81
Aroclor 1232	ND		ug/kg	32.5	6.91
Aroclor 1242	ND		ug/kg	32.5	6.17
Aroclor 1248	ND		ug/kg	32.5	3.94
Aroclor 1254	ND		ug/kg	32.5	5.13
Aroclor 1260	ND		ug/kg	32.5	5.65

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	61		30-150
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	63		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 04/23/13 19:38  
 Analyst: KB

Extraction Method: EPA 3546  
 Extraction Date: 04/22/13 11:46  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/22/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 21-25 Batch: WG603080-1					
Aroclor 1016	ND		ug/kg	32.5	6.42
Aroclor 1221	ND		ug/kg	32.5	9.81
Aroclor 1232	ND		ug/kg	32.5	6.91
Aroclor 1242	ND		ug/kg	32.5	6.17
Aroclor 1248	ND		ug/kg	32.5	3.94
Aroclor 1254	ND		ug/kg	32.5	5.13
Aroclor 1260	ND		ug/kg	32.5	5.65

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	97		30-150
Decachlorobiphenyl	54		30-150
2,4,5,6-Tetrachloro-m-xylene	104		30-150
Decachlorobiphenyl	53		30-150

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A  
 Analytical Date: 04/25/13 20:35  
 Analyst: KB

Extraction Method: EPA 3546  
 Extraction Date: 04/24/13 14:26  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/24/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/24/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 29 Batch: WG603745-1					
Aroclor 1016	ND		ug/kg	32.4	6.40
Aroclor 1221	ND		ug/kg	32.4	9.77
Aroclor 1232	ND		ug/kg	32.4	6.88
Aroclor 1242	ND		ug/kg	32.4	6.14
Aroclor 1248	ND		ug/kg	32.4	3.92
Aroclor 1254	ND		ug/kg	32.4	5.10
Aroclor 1260	ND		ug/kg	32.4	5.62

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	89		30-150
Decachlorobiphenyl	88		30-150
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	98		30-150

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 26-28,30-34,37-38 QC Batch ID: WG602873-4 WG602873-5 QC Sample: L1307016-27 Client ID: SB-23_0-2												
Aroclor 1016	ND	249	146	59		165	66		40-140	12		50
Aroclor 1260	ND	249	128	51		151	60		40-140	16		50

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,5,6-Tetrachloro-m-xylene	58		63		30-150
Decachlorobiphenyl	52		53		30-150
2,4,5,6-Tetrachloro-m-xylene	56		61		30-150
Decachlorobiphenyl	53		53		30-150

**Matrix Spike Analysis****Batch Quality Control****Project Name:** 514 W. 27TH ST. NYC**Project Number:** E040**Lab Number:** L1307016**Report Date:** 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG603007-4 WG603007-5 QC Sample: L1307016-17 Client ID: SB-27_7-9												
Aroclor 1016	ND	219	160	73		157	70		40-140	2		50
Aroclor 1260	ND	219	125	57		126	56		40-140	1		50

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,5,6-Tetrachloro-m-xylene	71		68		30-150
Decachlorobiphenyl	68		65		30-150
2,4,5,6-Tetrachloro-m-xylene	66		61		30-150
Decachlorobiphenyl	74		71		30-150



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 26-28,30-34,37-38 Batch: WG602873-2 WG602873-3								
Aroclor 1016	75		69		40-140	8		50
Aroclor 1260	56		49		40-140	13		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	73		68		30-150
Decachlorobiphenyl	65		57		30-150
2,4,5,6-Tetrachloro-m-xylene	70		65		30-150
Decachlorobiphenyl	70		58		30-150

Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 35 Batch: WG602927-2 WG602927-3								
Aroclor 1016	106		107		40-140	1		50
Aroclor 1260	100		104		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	115		113		30-150
Decachlorobiphenyl	123		124		30-150
2,4,5,6-Tetrachloro-m-xylene	98		96		30-150
Decachlorobiphenyl	114		115		30-150

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-20 Batch: WG603007-2 WG603007-3								
Aroclor 1016	83		81		40-140	2		50
Aroclor 1260	61		69		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		89		30-150
Decachlorobiphenyl	69		81		30-150
2,4,5,6-Tetrachloro-m-xylene	78		87		30-150
Decachlorobiphenyl	75		83		30-150

Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 21-25 Batch: WG603080-2 WG603080-3								
Aroclor 1016	99		107		40-140	8		50
Aroclor 1260	67		73		40-140	9		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	108		104		30-150
Decachlorobiphenyl	54		58		30-150
2,4,5,6-Tetrachloro-m-xylene	107		109		30-150
Decachlorobiphenyl	57		58		30-150

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 29 Batch: WG603745-2 WG603745-3								
Aroclor 1016	91		98		40-140	7		50
Aroclor 1260	78		79		40-140	1		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	93		96		30-150
Decachlorobiphenyl	88		87		30-150
2,4,5,6-Tetrachloro-m-xylene	81		82		30-150
Decachlorobiphenyl	98		96		30-150

# PESTICIDES

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-01  
**Client ID:** SB-12\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 10:35  
**Analyst:** BW  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 15:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.81	0.355	1
Lindane	ND		ug/kg	0.756	0.338	1
Alpha-BHC	ND		ug/kg	0.756	0.215	1
Beta-BHC	ND		ug/kg	1.81	0.688	1
Heptachlor	ND		ug/kg	0.907	0.407	1
Aldrin	ND		ug/kg	1.81	0.639	1
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1
Endrin	ND		ug/kg	0.756	0.310	1
Endrin ketone	ND		ug/kg	1.81	0.467	1
Dieldrin	ND		ug/kg	1.13	0.567	1
4,4'-DDE	ND		ug/kg	1.81	0.420	1
4,4'-DDD	ND		ug/kg	1.81	0.647	1
4,4'-DDT	ND		ug/kg	3.40	1.46	1
Endosulfan I	ND		ug/kg	1.81	0.429	1
Endosulfan II	ND		ug/kg	1.81	0.606	1
Endosulfan sulfate	ND		ug/kg	0.756	0.346	1
Methoxychlor	ND		ug/kg	3.40	1.06	1
Toxaphene	ND		ug/kg	34.0	9.53	1
cis-Chlordane	ND		ug/kg	2.27	0.632	1
trans-Chlordane	ND		ug/kg	2.27	0.599	1
Chlordane	ND		ug/kg	14.7	6.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	52		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-02  
**Client ID:** SB-12\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 10:48  
**Analyst:** BW  
**Percent Solids:** 89%

**Date Collected:** 04/18/13 15:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.71	0.336	1
Lindane	ND		ug/kg	0.714	0.319	1
Alpha-BHC	ND		ug/kg	0.714	0.203	1
Beta-BHC	ND		ug/kg	1.71	0.650	1
Heptachlor	ND		ug/kg	0.857	0.384	1
Aldrin	ND		ug/kg	1.71	0.603	1
Heptachlor epoxide	ND		ug/kg	3.21	0.964	1
Endrin	ND		ug/kg	0.714	0.293	1
Endrin ketone	ND		ug/kg	1.71	0.441	1
Dieldrin	ND		ug/kg	1.07	0.536	1
4,4'-DDE	ND		ug/kg	1.71	0.396	1
4,4'-DDD	ND		ug/kg	1.71	0.611	1
4,4'-DDT	ND		ug/kg	3.21	1.38	1
Endosulfan I	ND		ug/kg	1.71	0.405	1
Endosulfan II	ND		ug/kg	1.71	0.573	1
Endosulfan sulfate	ND		ug/kg	0.714	0.326	1
Methoxychlor	ND		ug/kg	3.21	1.00	1
Toxaphene	ND		ug/kg	32.1	9.00	1
cis-Chlordane	ND		ug/kg	2.14	0.597	1
trans-Chlordane	ND		ug/kg	2.14	0.566	1
Chlordane	ND		ug/kg	13.9	5.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	64		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-03  
**Client ID:** SB-9\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 11:01  
**Analyst:** BW  
**Percent Solids:** 96%

**Date Collected:** 04/18/13 16:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.60	0.312	1
Lindane	ND		ug/kg	0.665	0.297	1
Alpha-BHC	ND		ug/kg	0.665	0.189	1
Beta-BHC	ND		ug/kg	1.60	0.605	1
Heptachlor	ND		ug/kg	0.798	0.358	1
Aldrin	ND		ug/kg	1.60	0.562	1
Heptachlor epoxide	ND		ug/kg	2.99	0.898	1
Endrin	ND		ug/kg	0.665	0.273	1
Endrin ketone	ND		ug/kg	1.60	0.411	1
Dieldrin	ND		ug/kg	0.997	0.499	1
4,4'-DDE	ND		ug/kg	1.60	0.369	1
4,4'-DDD	8.21		ug/kg	1.60	0.569	1
4,4'-DDT	ND		ug/kg	2.99	1.28	1
Endosulfan I	ND		ug/kg	1.60	0.377	1
Endosulfan II	ND		ug/kg	1.60	0.533	1
Endosulfan sulfate	ND		ug/kg	0.665	0.304	1
Methoxychlor	ND		ug/kg	2.99	0.931	1
Toxaphene	ND		ug/kg	29.9	8.38	1
cis-Chlordane	ND		ug/kg	1.99	0.556	1
trans-Chlordane	ND		ug/kg	1.99	0.527	1
Chlordane	ND		ug/kg	13.0	5.29	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	84		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-04  
**Client ID:** SB-9\_3-5  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 11:14  
**Analyst:** BW  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.80	0.352	1
Lindane	ND		ug/kg	0.749	0.335	1
Alpha-BHC	ND		ug/kg	0.749	0.213	1
Beta-BHC	ND		ug/kg	1.80	0.682	1
Heptachlor	ND		ug/kg	0.899	0.403	1
Aldrin	ND		ug/kg	1.80	0.633	1
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1
Endrin	ND		ug/kg	0.749	0.307	1
Endrin ketone	ND		ug/kg	1.80	0.463	1
Dieldrin	ND		ug/kg	1.12	0.562	1
4,4'-DDE	ND		ug/kg	1.80	0.416	1
4,4'-DDD	ND		ug/kg	1.80	0.642	1
4,4'-DDT	ND		ug/kg	3.37	1.45	1
Endosulfan I	ND		ug/kg	1.80	0.425	1
Endosulfan II	ND		ug/kg	1.80	0.601	1
Endosulfan sulfate	ND		ug/kg	0.749	0.342	1
Methoxychlor	ND		ug/kg	3.37	1.05	1
Toxaphene	ND		ug/kg	33.7	9.44	1
cis-Chlordane	ND		ug/kg	2.25	0.626	1
trans-Chlordane	ND		ug/kg	2.25	0.594	1
Chlordane	ND		ug/kg	14.6	5.96	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	67		30-150	B



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-05  
**Client ID:** SB-13\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 14:42  
**Analyst:** BW  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
4,4'-DDD	22.4		ug/kg	1.83	0.652	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	84		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-05  
**Client ID:** SB-13\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 14:42  
**Analyst:** BW  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.83	0.358	1
Lindane	ND		ug/kg	0.761	0.340	1
Alpha-BHC	ND		ug/kg	0.761	0.216	1
Beta-BHC	ND		ug/kg	1.83	0.693	1
Heptachlor	ND		ug/kg	0.914	0.410	1
Aldrin	ND		ug/kg	1.83	0.643	1
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1
Endrin	ND		ug/kg	0.761	0.312	1
Endrin ketone	ND		ug/kg	1.83	0.470	1
Dieldrin	ND		ug/kg	1.14	0.571	1
4,4'-DDE	ND		ug/kg	1.83	0.423	1
4,4'-DDT	ND		ug/kg	3.43	1.47	1
Endosulfan I	ND		ug/kg	1.83	0.432	1
Endosulfan II	ND		ug/kg	1.83	0.611	1
Endosulfan sulfate	ND		ug/kg	0.761	0.348	1
Methoxychlor	ND		ug/kg	3.43	1.07	1
Toxaphene	ND		ug/kg	34.3	9.59	1
cis-Chlordane	ND		ug/kg	2.28	0.636	1
trans-Chlordane	ND		ug/kg	2.28	0.603	1
Chlordane	ND		ug/kg	14.8	6.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	84		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-06  
**Client ID:** SB-13\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 11:39  
**Analyst:** BW  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 16:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.82	0.356	1
Lindane	ND		ug/kg	0.757	0.338	1
Alpha-BHC	ND		ug/kg	0.757	0.215	1
Beta-BHC	ND		ug/kg	1.82	0.688	1
Heptachlor	ND		ug/kg	0.908	0.407	1
Aldrin	ND		ug/kg	1.82	0.639	1
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1
Endrin	ND		ug/kg	0.757	0.310	1
Endrin ketone	ND		ug/kg	1.82	0.468	1
Dieldrin	ND		ug/kg	1.13	0.567	1
4,4'-DDE	ND		ug/kg	1.82	0.420	1
4,4'-DDD	ND		ug/kg	1.82	0.648	1
4,4'-DDT	ND		ug/kg	3.40	1.46	1
Endosulfan I	ND		ug/kg	1.82	0.429	1
Endosulfan II	ND		ug/kg	1.82	0.607	1
Endosulfan sulfate	ND		ug/kg	0.757	0.346	1
Methoxychlor	ND		ug/kg	3.40	1.06	1
Toxaphene	ND		ug/kg	34.0	9.53	1
cis-Chlordane	ND		ug/kg	2.27	0.632	1
trans-Chlordane	ND		ug/kg	2.27	0.599	1
Chlordane	ND		ug/kg	14.8	6.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	42		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-07  
**Client ID:** SB-18\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 11:52  
**Analyst:** BW  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 16:45  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.83	0.359	1
Lindane	ND		ug/kg	0.764	0.341	1
Alpha-BHC	ND		ug/kg	0.764	0.217	1
Beta-BHC	ND		ug/kg	1.83	0.695	1
Heptachlor	ND		ug/kg	0.917	0.411	1
Aldrin	ND		ug/kg	1.83	0.646	1
Heptachlor epoxide	ND		ug/kg	3.44	1.03	1
Endrin	ND		ug/kg	0.764	0.313	1
Endrin ketone	ND		ug/kg	1.83	0.472	1
Dieldrin	ND		ug/kg	1.14	0.573	1
4,4'-DDE	ND		ug/kg	1.83	0.424	1
4,4'-DDD	ND		ug/kg	1.83	0.654	1
4,4'-DDT	ND		ug/kg	3.44	1.47	1
Endosulfan I	ND		ug/kg	1.83	0.433	1
Endosulfan II	ND		ug/kg	1.83	0.613	1
Endosulfan sulfate	ND		ug/kg	0.764	0.349	1
Methoxychlor	ND		ug/kg	3.44	1.07	1
Toxaphene	ND		ug/kg	34.4	9.62	1
cis-Chlordane	ND		ug/kg	2.29	0.639	1
trans-Chlordane	ND		ug/kg	2.29	0.605	1
Chlordane	ND		ug/kg	14.9	6.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	138		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	160	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-08  
**Client ID:** SB-18\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 12:05  
**Analyst:** BW  
**Percent Solids:** 87%

**Date Collected:** 04/18/13 16:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.82	0.357	1
Lindane	ND		ug/kg	0.760	0.340	1
Alpha-BHC	ND		ug/kg	0.760	0.216	1
Beta-BHC	ND		ug/kg	1.82	0.692	1
Heptachlor	ND		ug/kg	0.912	0.409	1
Aldrin	ND		ug/kg	1.82	0.642	1
Heptachlor epoxide	ND		ug/kg	3.42	1.03	1
Endrin	ND		ug/kg	0.760	0.312	1
Endrin ketone	ND		ug/kg	1.82	0.470	1
Dieldrin	ND		ug/kg	1.14	0.570	1
4,4'-DDE	ND		ug/kg	1.82	0.422	1
4,4'-DDD	ND		ug/kg	1.82	0.651	1
4,4'-DDT	ND		ug/kg	3.42	1.47	1
Endosulfan I	ND		ug/kg	1.82	0.431	1
Endosulfan II	ND		ug/kg	1.82	0.610	1
Endosulfan sulfate	ND		ug/kg	0.760	0.347	1
Methoxychlor	ND		ug/kg	3.42	1.06	1
Toxaphene	ND		ug/kg	34.2	9.58	1
cis-Chlordane	ND		ug/kg	2.28	0.636	1
trans-Chlordane	ND		ug/kg	2.28	0.602	1
Chlordane	ND		ug/kg	14.8	6.04	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	106		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-09  
**Client ID:** SB-8\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 12:18  
**Analyst:** BW  
**Percent Solids:** 79%

**Date Collected:** 04/18/13 17:05  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.96	0.385	1
Lindane	ND		ug/kg	0.819	0.366	1
Alpha-BHC	ND		ug/kg	0.819	0.232	1
Beta-BHC	ND		ug/kg	1.96	0.745	1
Heptachlor	ND		ug/kg	0.982	0.440	1
Aldrin	ND		ug/kg	1.96	0.692	1
Heptachlor epoxide	ND		ug/kg	3.68	1.10	1
Endrin	ND		ug/kg	0.819	0.336	1
Endrin ketone	ND		ug/kg	1.96	0.506	1
Dieldrin	ND		ug/kg	1.23	0.614	1
4,4'-DDE	ND		ug/kg	1.96	0.454	1
4,4'-DDD	ND		ug/kg	1.96	0.701	1
4,4'-DDT	ND		ug/kg	3.68	1.58	1
Endosulfan I	ND		ug/kg	1.96	0.464	1
Endosulfan II	ND		ug/kg	1.96	0.656	1
Endosulfan sulfate	ND		ug/kg	0.819	0.374	1
Methoxychlor	ND		ug/kg	3.68	1.15	1
Toxaphene	ND		ug/kg	36.8	10.3	1
cis-Chlordane	ND		ug/kg	2.46	0.684	1
trans-Chlordane	ND		ug/kg	2.46	0.648	1
Chlordane	ND		ug/kg	16.0	6.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	67		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-10  
**Client ID:** SB-8\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 12:30  
**Analyst:** BW  
**Percent Solids:** 90%

**Date Collected:** 04/18/13 17:15  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.68	0.330	1
Lindane	ND		ug/kg	0.701	0.313	1
Alpha-BHC	ND		ug/kg	0.701	0.199	1
Beta-BHC	ND		ug/kg	1.68	0.638	1
Heptachlor	ND		ug/kg	0.841	0.377	1
Aldrin	ND		ug/kg	1.68	0.592	1
Heptachlor epoxide	ND		ug/kg	3.16	0.947	1
Endrin	ND		ug/kg	0.701	0.288	1
Endrin ketone	ND		ug/kg	1.68	0.433	1
Dieldrin	ND		ug/kg	1.05	0.526	1
4,4'-DDE	ND		ug/kg	1.68	0.389	1
4,4'-DDD	ND		ug/kg	1.68	0.600	1
4,4'-DDT	ND		ug/kg	3.16	1.35	1
Endosulfan I	ND		ug/kg	1.68	0.398	1
Endosulfan II	ND		ug/kg	1.68	0.562	1
Endosulfan sulfate	ND		ug/kg	0.701	0.320	1
Methoxychlor	ND		ug/kg	3.16	0.982	1
Toxaphene	ND		ug/kg	31.6	8.84	1
cis-Chlordane	ND		ug/kg	2.10	0.586	1
trans-Chlordane	ND		ug/kg	2.10	0.555	1
Chlordane	ND		ug/kg	13.7	5.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	58		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-11  
**Client ID:** SB-28\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 12:43  
**Analyst:** BW  
**Percent Solids:** 75%

**Date Collected:** 04/18/13 08:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	2.08	0.407	1
Lindane	ND		ug/kg	0.866	0.387	1
Alpha-BHC	ND		ug/kg	0.866	0.246	1
Beta-BHC	ND		ug/kg	2.08	0.788	1
Heptachlor	ND		ug/kg	1.04	0.466	1
Aldrin	ND		ug/kg	2.08	0.732	1
Heptachlor epoxide	ND		ug/kg	3.90	1.17	1
Endrin	ND		ug/kg	0.866	0.355	1
Endrin ketone	ND		ug/kg	2.08	0.535	1
Dieldrin	ND		ug/kg	1.30	0.650	1
4,4'-DDE	ND		ug/kg	2.08	0.481	1
4,4'-DDD	ND		ug/kg	2.08	0.742	1
4,4'-DDT	ND		ug/kg	3.90	1.67	1
Endosulfan I	ND		ug/kg	2.08	0.491	1
Endosulfan II	ND		ug/kg	2.08	0.695	1
Endosulfan sulfate	ND		ug/kg	0.866	0.396	1
Methoxychlor	ND		ug/kg	3.90	1.21	1
Toxaphene	ND		ug/kg	39.0	10.9	1
cis-Chlordane	ND		ug/kg	2.60	0.724	1
trans-Chlordane	ND		ug/kg	2.60	0.686	1
Chlordane	ND		ug/kg	16.9	6.89	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	103		30-150	B



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-12  
**Client ID:** SB-28\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 12:56  
**Analyst:** BW  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 08:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.78	0.348	1
Lindane	ND		ug/kg	0.741	0.331	1
Alpha-BHC	ND		ug/kg	0.741	0.210	1
Beta-BHC	ND		ug/kg	1.78	0.674	1
Heptachlor	ND		ug/kg	0.889	0.398	1
Aldrin	ND		ug/kg	1.78	0.626	1
Heptachlor epoxide	ND		ug/kg	3.33	1.00	1
Endrin	ND		ug/kg	0.741	0.304	1
Endrin ketone	ND		ug/kg	1.78	0.458	1
Dieldrin	ND		ug/kg	1.11	0.556	1
4,4'-DDE	ND		ug/kg	1.78	0.411	1
4,4'-DDD	ND		ug/kg	1.78	0.634	1
4,4'-DDT	ND		ug/kg	3.33	1.43	1
Endosulfan I	ND		ug/kg	1.78	0.420	1
Endosulfan II	ND		ug/kg	1.78	0.594	1
Endosulfan sulfate	ND		ug/kg	0.741	0.338	1
Methoxychlor	ND		ug/kg	3.33	1.04	1
Toxaphene	ND		ug/kg	33.3	9.33	1
cis-Chlordane	ND		ug/kg	2.22	0.619	1
trans-Chlordane	ND		ug/kg	2.22	0.587	1
Chlordane	ND		ug/kg	14.4	5.89	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	68		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-13  
**Client ID:** SB-25\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 09:21  
**Analyst:** BW  
**Percent Solids:** 87%

**Date Collected:** 04/18/13 09:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.75	0.343	1
Lindane	ND		ug/kg	0.729	0.326	1
Alpha-BHC	ND		ug/kg	0.729	0.207	1
Beta-BHC	ND		ug/kg	1.75	0.664	1
Heptachlor	ND		ug/kg	0.875	0.392	1
Aldrin	ND		ug/kg	1.75	0.616	1
Heptachlor epoxide	ND		ug/kg	3.28	0.984	1
Endrin	ND		ug/kg	0.729	0.299	1
Endrin ketone	ND		ug/kg	1.75	0.451	1
Dieldrin	17.9		ug/kg	1.09	0.547	1
4,4'-DDE	ND		ug/kg	1.75	0.405	1
4,4'-DDD	ND		ug/kg	1.75	0.624	1
4,4'-DDT	ND		ug/kg	3.28	1.41	1
Endosulfan I	ND		ug/kg	1.75	0.413	1
Endosulfan II	ND		ug/kg	1.75	0.585	1
Endosulfan sulfate	ND		ug/kg	0.729	0.333	1
Methoxychlor	ND		ug/kg	3.28	1.02	1
Toxaphene	ND		ug/kg	32.8	9.19	1
cis-Chlordane	ND		ug/kg	2.19	0.610	1
trans-Chlordane	ND		ug/kg	2.19	0.577	1
Chlordane	ND		ug/kg	14.2	5.80	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	63		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-14  
**Client ID:** SB-25\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/25/13 09:11  
**Analyst:** BW  
**Percent Solids:** 86%

**Date Collected:** 04/18/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/24/13 18:44  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/25/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.79	0.351	1
Lindane	ND		ug/kg	0.748	0.334	1
Alpha-BHC	ND		ug/kg	0.748	0.212	1
Beta-BHC	ND		ug/kg	1.79	0.680	1
Heptachlor	ND		ug/kg	0.897	0.402	1
Aldrin	ND		ug/kg	1.79	0.632	1
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1
Endrin	ND		ug/kg	0.748	0.306	1
Endrin ketone	ND		ug/kg	1.79	0.462	1
Dieldrin	ND		ug/kg	1.12	0.561	1
4,4'-DDE	ND		ug/kg	1.79	0.415	1
4,4'-DDD	ND		ug/kg	1.79	0.640	1
4,4'-DDT	ND		ug/kg	3.36	1.44	1
Endosulfan I	ND		ug/kg	1.79	0.424	1
Endosulfan II	ND		ug/kg	1.79	0.600	1
Endosulfan sulfate	ND		ug/kg	0.748	0.342	1
Methoxychlor	ND		ug/kg	3.36	1.05	1
Toxaphene	ND		ug/kg	33.6	9.42	1
cis-Chlordane	ND		ug/kg	2.24	0.625	1
trans-Chlordane	ND		ug/kg	2.24	0.592	1
Chlordane	ND		ug/kg	14.6	5.94	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	76		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-15  
**Client ID:** SB-25\_7-9\_FIELD-DUP  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 19:05  
**Analyst:** BW  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.73	0.338	1
Lindane	ND		ug/kg	0.720	0.322	1
Alpha-BHC	ND		ug/kg	0.720	0.204	1
Beta-BHC	ND		ug/kg	1.73	0.655	1
Heptachlor	ND		ug/kg	0.864	0.387	1
Aldrin	ND		ug/kg	1.73	0.608	1
Heptachlor epoxide	ND		ug/kg	3.24	0.972	1
Endrin	ND		ug/kg	0.720	0.295	1
Endrin ketone	ND		ug/kg	1.73	0.445	1
Dieldrin	ND		ug/kg	1.08	0.540	1
4,4'-DDE	ND		ug/kg	1.73	0.399	1
4,4'-DDD	ND		ug/kg	1.73	0.616	1
4,4'-DDT	ND		ug/kg	3.24	1.39	1
Endosulfan I	ND		ug/kg	1.73	0.408	1
Endosulfan II	ND		ug/kg	1.73	0.577	1
Endosulfan sulfate	ND		ug/kg	0.720	0.329	1
Methoxychlor	ND		ug/kg	3.24	1.01	1
Toxaphene	ND		ug/kg	32.4	9.07	1
cis-Chlordane	ND		ug/kg	2.16	0.602	1
trans-Chlordane	ND		ug/kg	2.16	0.570	1
Chlordane	ND		ug/kg	14.0	5.72	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	96		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-16  
**Client ID:** SB-27\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 19:18  
**Analyst:** BW  
**Percent Solids:** 83%

**Date Collected:** 04/18/13 14:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.86	0.365	1
Lindane	ND		ug/kg	0.777	0.347	1
Alpha-BHC	ND		ug/kg	0.777	0.221	1
Beta-BHC	ND		ug/kg	1.86	0.707	1
Heptachlor	ND		ug/kg	0.932	0.418	1
Aldrin	ND		ug/kg	1.86	0.657	1
Heptachlor epoxide	ND		ug/kg	3.50	1.05	1
Endrin	ND		ug/kg	0.777	0.319	1
Endrin ketone	ND		ug/kg	1.86	0.480	1
Dieldrin	ND		ug/kg	1.16	0.583	1
4,4'-DDE	ND		ug/kg	1.86	0.431	1
4,4'-DDD	ND		ug/kg	1.86	0.665	1
4,4'-DDT	ND		ug/kg	3.50	1.50	1
Endosulfan I	ND		ug/kg	1.86	0.441	1
Endosulfan II	ND		ug/kg	1.86	0.623	1
Endosulfan sulfate	ND		ug/kg	0.777	0.355	1
Methoxychlor	ND		ug/kg	3.50	1.09	1
Toxaphene	ND		ug/kg	35.0	9.79	1
cis-Chlordane	ND		ug/kg	2.33	0.650	1
trans-Chlordane	ND		ug/kg	2.33	0.615	1
Chlordane	ND		ug/kg	15.2	6.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	210	Q	30-150	A
Decachlorobiphenyl	256	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	1560	Q	30-150	B
Decachlorobiphenyl	1100	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-17  
**Client ID:** SB-27\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/24/13 12:58  
**Analyst:** BW  
**Percent Solids:** 90%

**Date Collected:** 04/18/13 14:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.71	0.335	1
Lindane	ND		ug/kg	0.713	0.319	1
Alpha-BHC	ND		ug/kg	0.713	0.202	1
Beta-BHC	ND		ug/kg	1.71	0.649	1
Heptachlor	ND		ug/kg	0.856	0.384	1
Aldrin	ND		ug/kg	1.71	0.603	1
Heptachlor epoxide	ND		ug/kg	3.21	0.963	1
Endrin	ND		ug/kg	0.713	0.292	1
Endrin ketone	ND		ug/kg	1.71	0.441	1
Dieldrin	ND		ug/kg	1.07	0.535	1
4,4'-DDE	ND		ug/kg	1.71	0.396	1
4,4'-DDD	ND		ug/kg	1.71	0.610	1
4,4'-DDT	ND		ug/kg	3.21	1.38	1
Endosulfan I	ND		ug/kg	1.71	0.404	1
Endosulfan II	ND		ug/kg	1.71	0.572	1
Endosulfan sulfate	ND		ug/kg	0.713	0.326	1
Methoxychlor	ND		ug/kg	3.21	0.998	1
Toxaphene	ND		ug/kg	32.1	8.98	1
cis-Chlordane	ND		ug/kg	2.14	0.596	1
trans-Chlordane	ND		ug/kg	2.14	0.565	1
Chlordane	ND		ug/kg	13.9	5.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	78		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-18  
**Client ID:** SB-10\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 19:43  
**Analyst:** BW  
**Percent Solids:** 89%

**Date Collected:** 04/18/13 15:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.72	0.337	1
Lindane	ND		ug/kg	0.718	0.321	1
Alpha-BHC	ND		ug/kg	0.718	0.204	1
Beta-BHC	ND		ug/kg	1.72	0.653	1
Heptachlor	ND		ug/kg	0.861	0.386	1
Aldrin	ND		ug/kg	1.72	0.606	1
Heptachlor epoxide	ND		ug/kg	3.23	0.969	1
Endrin	ND		ug/kg	0.718	0.294	1
Endrin ketone	ND		ug/kg	1.72	0.443	1
Dieldrin	ND		ug/kg	1.08	0.538	1
4,4'-DDE	ND		ug/kg	1.72	0.398	1
4,4'-DDD	ND		ug/kg	1.72	0.614	1
4,4'-DDT	ND		ug/kg	3.23	1.38	1
Endosulfan I	ND		ug/kg	1.72	0.407	1
Endosulfan II	ND		ug/kg	1.72	0.575	1
Endosulfan sulfate	ND		ug/kg	0.718	0.328	1
Methoxychlor	ND		ug/kg	3.23	1.00	1
Toxaphene	ND		ug/kg	32.3	9.04	1
cis-Chlordane	ND		ug/kg	2.15	0.600	1
trans-Chlordane	ND		ug/kg	2.15	0.568	1
Chlordane	ND		ug/kg	14.0	5.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	2180	Q	30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	44		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-19  
**Client ID:** SB-10\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 19:56  
**Analyst:** BW  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 15:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.72	0.338	1
Lindane	ND		ug/kg	0.718	0.321	1
Alpha-BHC	ND		ug/kg	0.718	0.204	1
Beta-BHC	ND		ug/kg	1.72	0.654	1
Heptachlor	ND		ug/kg	0.862	0.386	1
Aldrin	ND		ug/kg	1.72	0.607	1
Heptachlor epoxide	ND		ug/kg	3.23	0.970	1
Endrin	ND		ug/kg	0.718	0.295	1
Endrin ketone	ND		ug/kg	1.72	0.444	1
Dieldrin	ND		ug/kg	1.08	0.539	1
4,4'-DDE	ND		ug/kg	1.72	0.399	1
4,4'-DDD	ND		ug/kg	1.72	0.615	1
4,4'-DDT	ND		ug/kg	3.23	1.39	1
Endosulfan I	ND		ug/kg	1.72	0.407	1
Endosulfan II	ND		ug/kg	1.72	0.576	1
Endosulfan sulfate	ND		ug/kg	0.718	0.328	1
Methoxychlor	ND		ug/kg	3.23	1.01	1
Toxaphene	ND		ug/kg	32.3	9.05	1
cis-Chlordane	ND		ug/kg	2.16	0.601	1
trans-Chlordane	ND		ug/kg	2.16	0.569	1
Chlordane	ND		ug/kg	14.0	5.71	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	74		30-150	B



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-20  
**Client ID:** SB-15\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 18:40  
**Analyst:** BW  
**Percent Solids:** 93%

**Date Collected:** 04/19/13 08:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 14:15  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.71	0.334	1
Lindane	ND		ug/kg	0.711	0.318	1
Alpha-BHC	ND		ug/kg	0.711	0.202	1
Beta-BHC	ND		ug/kg	1.71	0.647	1
Heptachlor	ND		ug/kg	0.853	0.382	1
Aldrin	ND		ug/kg	1.71	0.601	1
Heptachlor epoxide	ND		ug/kg	3.20	0.960	1
Endrin	ND		ug/kg	0.711	0.292	1
Endrin ketone	ND		ug/kg	1.71	0.439	1
Dieldrin	ND		ug/kg	1.07	0.533	1
4,4'-DDE	ND		ug/kg	1.71	0.395	1
4,4'-DDD	ND		ug/kg	1.71	0.609	1
4,4'-DDT	ND		ug/kg	3.20	1.37	1
Endosulfan I	ND		ug/kg	1.71	0.403	1
Endosulfan II	ND		ug/kg	1.71	0.570	1
Endosulfan sulfate	ND		ug/kg	0.711	0.325	1
Methoxychlor	ND		ug/kg	3.20	0.996	1
Toxaphene	ND		ug/kg	32.0	8.96	1
cis-Chlordane	ND		ug/kg	2.13	0.594	1
trans-Chlordane	ND		ug/kg	2.13	0.563	1
Chlordane	ND		ug/kg	13.9	5.65	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	133		30-150	A
Decachlorobiphenyl	138		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	106		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-21  
**Client ID:** SB-15\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 12:17  
**Analyst:** BW  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 09:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.83	0.358	1
Lindane	ND		ug/kg	0.761	0.340	1
Alpha-BHC	ND		ug/kg	0.761	0.216	1
Beta-BHC	ND		ug/kg	1.83	0.692	1
Heptachlor	ND		ug/kg	0.913	0.409	1
Aldrin	ND		ug/kg	1.83	0.643	1
Heptachlor epoxide	ND		ug/kg	3.42	1.03	1
Endrin	ND		ug/kg	0.761	0.312	1
Endrin ketone	ND		ug/kg	1.83	0.470	1
Dieldrin	ND		ug/kg	1.14	0.571	1
4,4'-DDE	ND		ug/kg	1.83	0.422	1
4,4'-DDD	ND		ug/kg	1.83	0.651	1
4,4'-DDT	ND		ug/kg	3.42	1.47	1
Endosulfan I	ND		ug/kg	1.83	0.431	1
Endosulfan II	ND		ug/kg	1.83	0.610	1
Endosulfan sulfate	ND		ug/kg	0.761	0.348	1
Methoxychlor	ND		ug/kg	3.42	1.06	1
Toxaphene	ND		ug/kg	34.2	9.59	1
cis-Chlordane	ND		ug/kg	2.28	0.636	1
trans-Chlordane	ND		ug/kg	2.28	0.602	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	181	Q	30-150	A
Decachlorobiphenyl	220	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	126		30-150	B
Decachlorobiphenyl	161	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-21  
**Client ID:** SB-15\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 12:17  
**Analyst:** BW  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 09:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Chlordane	16.4		ug/kg	14.8	6.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	181	Q	30-150	A
Decachlorobiphenyl	220	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	126		30-150	B
Decachlorobiphenyl	161	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-22      D  
**Client ID:** SB-16\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 12:29  
**Analyst:** BW  
**Percent Solids:** 76%

**Date Collected:** 04/19/13 09:30  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	40.2	7.86	20
Lindane	ND		ug/kg	16.7	7.48	20
Alpha-BHC	ND		ug/kg	16.7	4.75	20
Beta-BHC	ND		ug/kg	40.2	15.2	20
Heptachlor	ND		ug/kg	20.1	9.00	20
Aldrin	ND		ug/kg	40.2	14.1	20
Heptachlor epoxide	ND		ug/kg	75.3	22.6	20
Endrin	ND		ug/kg	16.7	6.86	20
Endrin ketone	ND		ug/kg	40.2	10.3	20
Dieldrin	ND		ug/kg	25.1	12.5	20
4,4'-DDE	ND		ug/kg	40.2	9.28	20
4,4'-DDD	ND		ug/kg	40.2	14.3	20
4,4'-DDT	ND		ug/kg	75.3	32.3	20
Endosulfan I	ND		ug/kg	40.2	9.48	20
Endosulfan II	ND		ug/kg	40.2	13.4	20
Endosulfan sulfate	ND		ug/kg	16.7	7.64	20
Methoxychlor	ND		ug/kg	75.3	23.4	20
Toxaphene	ND		ug/kg	753	211.	20
cis-Chlordane	ND		ug/kg	50.2	14.0	20
trans-Chlordane	ND		ug/kg	50.2	13.2	20
Chlordane	ND		ug/kg	326	133.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-23  
**Client ID:** SB-16\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 12:42  
**Analyst:** BW  
**Percent Solids:** 88%

**Date Collected:** 04/19/13 09:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.78	0.349	1
Lindane	ND		ug/kg	0.743	0.332	1
Alpha-BHC	ND		ug/kg	0.743	0.211	1
Beta-BHC	ND		ug/kg	1.78	0.676	1
Heptachlor	ND		ug/kg	0.891	0.400	1
Aldrin	ND		ug/kg	1.78	0.628	1
Heptachlor epoxide	ND		ug/kg	3.34	1.00	1
Endrin	ND		ug/kg	0.743	0.304	1
Endrin ketone	ND		ug/kg	1.78	0.459	1
Dieldrin	ND		ug/kg	1.11	0.557	1
4,4'-DDE	ND		ug/kg	1.78	0.412	1
4,4'-DDD	ND		ug/kg	1.78	0.636	1
4,4'-DDT	ND		ug/kg	3.34	1.43	1
Endosulfan I	ND		ug/kg	1.78	0.421	1
Endosulfan II	ND		ug/kg	1.78	0.596	1
Endosulfan sulfate	ND		ug/kg	0.743	0.339	1
Methoxychlor	ND		ug/kg	3.34	1.04	1
Toxaphene	ND		ug/kg	33.4	9.36	1
cis-Chlordane	ND		ug/kg	2.23	0.621	1
trans-Chlordane	ND		ug/kg	2.23	0.588	1
Chlordane	ND		ug/kg	14.5	5.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	A
Decachlorobiphenyl	110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	85		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-24  
**Client ID:** SB-16\_7-9-FIELD-DUP  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 12:55  
**Analyst:** BW  
**Percent Solids:** 92%

**Date Collected:** 04/19/13 09:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.70	0.334	1
Lindane	ND		ug/kg	0.711	0.318	1
Alpha-BHC	ND		ug/kg	0.711	0.202	1
Beta-BHC	ND		ug/kg	1.70	0.647	1
Heptachlor	ND		ug/kg	0.853	0.382	1
Aldrin	ND		ug/kg	1.70	0.600	1
Heptachlor epoxide	ND		ug/kg	3.20	0.959	1
Endrin	ND		ug/kg	0.711	0.291	1
Endrin ketone	ND		ug/kg	1.70	0.439	1
Dieldrin	ND		ug/kg	1.06	0.533	1
4,4'-DDE	ND		ug/kg	1.70	0.394	1
4,4'-DDD	ND		ug/kg	1.70	0.608	1
4,4'-DDT	ND		ug/kg	3.20	1.37	1
Endosulfan I	ND		ug/kg	1.70	0.403	1
Endosulfan II	ND		ug/kg	1.70	0.570	1
Endosulfan sulfate	ND		ug/kg	0.711	0.325	1
Methoxychlor	ND		ug/kg	3.20	0.995	1
Toxaphene	ND		ug/kg	32.0	8.95	1
cis-Chlordane	ND		ug/kg	2.13	0.594	1
trans-Chlordane	ND		ug/kg	2.13	0.563	1
Chlordane	ND		ug/kg	13.8	5.65	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	84		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-25  
**Client ID:** SB-24\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 13:08  
**Analyst:** BW  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 10:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.77	0.346	1
Lindane	ND		ug/kg	0.736	0.329	1
Alpha-BHC	ND		ug/kg	0.736	0.209	1
Beta-BHC	ND		ug/kg	1.77	0.670	1
Heptachlor	ND		ug/kg	0.884	0.396	1
Aldrin	ND		ug/kg	1.77	0.622	1
Heptachlor epoxide	ND		ug/kg	3.31	0.994	1
Endrin	ND		ug/kg	0.736	0.302	1
Endrin ketone	ND		ug/kg	1.77	0.455	1
Dieldrin	ND		ug/kg	1.10	0.552	1
4,4'-DDE	ND		ug/kg	1.77	0.409	1
4,4'-DDD	ND		ug/kg	1.77	0.630	1
4,4'-DDT	ND		ug/kg	3.31	1.42	1
Endosulfan I	ND		ug/kg	1.77	0.417	1
Endosulfan II	ND		ug/kg	1.77	0.590	1
Endosulfan sulfate	ND		ug/kg	0.736	0.336	1
Methoxychlor	ND		ug/kg	3.31	1.03	1
Toxaphene	ND		ug/kg	33.1	9.28	1
cis-Chlordane	ND		ug/kg	2.21	0.616	1
trans-Chlordane	ND		ug/kg	2.21	0.583	1
Chlordane	ND		ug/kg	14.4	5.85	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	66		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-26  
**Client ID:** SB-24\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 13:20  
**Analyst:** BW  
**Percent Solids:** 83%

**Date Collected:** 04/19/13 10:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.89	0.371	1
Lindane	ND		ug/kg	0.789	0.352	1
Alpha-BHC	ND		ug/kg	0.789	0.224	1
Beta-BHC	ND		ug/kg	1.89	0.718	1
Heptachlor	ND		ug/kg	0.946	0.424	1
Aldrin	ND		ug/kg	1.89	0.666	1
Heptachlor epoxide	ND		ug/kg	3.55	1.06	1
Endrin	ND		ug/kg	0.789	0.323	1
Endrin ketone	ND		ug/kg	1.89	0.487	1
Dieldrin	ND		ug/kg	1.18	0.591	1
4,4'-DDE	ND		ug/kg	1.89	0.438	1
4,4'-DDD	3.38		ug/kg	1.89	0.675	1
4,4'-DDT	ND		ug/kg	3.55	1.52	1
Endosulfan I	ND		ug/kg	1.89	0.447	1
Endosulfan II	ND		ug/kg	1.89	0.632	1
Endosulfan sulfate	ND		ug/kg	0.789	0.360	1
Methoxychlor	ND		ug/kg	3.55	1.10	1
Toxaphene	ND		ug/kg	35.5	9.94	1
cis-Chlordane	ND		ug/kg	2.36	0.659	1
trans-Chlordane	ND		ug/kg	2.36	0.624	1
Chlordane	ND		ug/kg	15.4	6.27	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	117		30-150	A
Decachlorobiphenyl	109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	106		30-150	B



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-27  
**Client ID:** SB-23\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 13:59  
**Analyst:** BW  
**Percent Solids:** 82%

**Date Collected:** 04/19/13 10:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	2.21	0.432	1
Lindane	ND		ug/kg	0.920	0.411	1
Alpha-BHC	ND		ug/kg	0.920	0.261	1
Beta-BHC	ND		ug/kg	2.21	0.837	1
Heptachlor	ND		ug/kg	1.10	0.495	1
Aldrin	ND		ug/kg	2.21	0.778	1
Heptachlor epoxide	ND		ug/kg	4.14	1.24	1
Endrin	ND		ug/kg	0.920	0.377	1
Endrin ketone	ND		ug/kg	2.21	0.569	1
Dieldrin	ND		ug/kg	1.38	0.690	1
4,4'-DDE	ND		ug/kg	2.21	0.511	1
4,4'-DDD	ND		ug/kg	2.21	0.788	1
4,4'-DDT	ND		ug/kg	4.14	1.78	1
Endosulfan I	ND		ug/kg	2.21	0.522	1
Endosulfan II	ND		ug/kg	2.21	0.738	1
Endosulfan sulfate	ND		ug/kg	0.920	0.420	1
Methoxychlor	ND		ug/kg	4.14	1.29	1
Toxaphene	ND		ug/kg	41.4	11.6	1
cis-Chlordane	ND		ug/kg	2.76	0.769	1
trans-Chlordane	ND		ug/kg	2.76	0.729	1
Chlordane	ND		ug/kg	17.9	7.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	121		30-150	A
Decachlorobiphenyl	123		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	102		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-28  
**Client ID:** SB-23\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 22:42  
**Analyst:** BW  
**Percent Solids:** 85%

**Date Collected:** 04/19/13 10:55  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.79	0.351	1
Lindane	ND		ug/kg	0.748	0.334	1
Alpha-BHC	ND		ug/kg	0.748	0.212	1
Beta-BHC	ND		ug/kg	1.79	0.680	1
Heptachlor	ND		ug/kg	0.897	0.402	1
Aldrin	ND		ug/kg	1.79	0.632	1
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1
Endrin	ND		ug/kg	0.748	0.306	1
Endrin ketone	ND		ug/kg	1.79	0.462	1
Dieldrin	ND		ug/kg	1.12	0.561	1
4,4'-DDE	ND		ug/kg	1.79	0.415	1
4,4'-DDD	ND		ug/kg	1.79	0.640	1
4,4'-DDT	ND		ug/kg	3.36	1.44	1
Endosulfan I	ND		ug/kg	1.79	0.424	1
Endosulfan II	ND		ug/kg	1.79	0.600	1
Endosulfan sulfate	ND		ug/kg	0.748	0.342	1
Methoxychlor	ND		ug/kg	3.36	1.05	1
Toxaphene	ND		ug/kg	33.6	9.42	1
cis-Chlordane	ND		ug/kg	2.24	0.625	1
trans-Chlordane	ND		ug/kg	2.24	0.592	1
Chlordane	ND		ug/kg	14.6	5.94	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	113		30-150	A
Decachlorobiphenyl	127		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	99		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-29      D  
**Client ID:** SB-17\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 22:55  
**Analyst:** BW  
**Percent Solids:** 93%

**Date Collected:** 04/19/13 11:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	33.9	6.64	20
Lindane	ND		ug/kg	14.1	6.31	20
Alpha-BHC	ND		ug/kg	14.1	4.01	20
Beta-BHC	ND		ug/kg	33.9	12.8	20
Heptachlor	ND		ug/kg	16.9	7.60	20
Aldrin	ND		ug/kg	33.9	11.9	20
Heptachlor epoxide	ND		ug/kg	63.6	19.1	20
Endrin	ND		ug/kg	14.1	5.79	20
Endrin ketone	ND		ug/kg	33.9	8.73	20
Dieldrin	ND		ug/kg	21.2	10.6	20
4,4'-DDE	ND		ug/kg	33.9	7.84	20
4,4'-DDD	ND		ug/kg	33.9	12.1	20
4,4'-DDT	ND		ug/kg	63.6	27.2	20
Endosulfan I	ND		ug/kg	33.9	8.01	20
Endosulfan II	ND		ug/kg	33.9	11.3	20
Endosulfan sulfate	ND		ug/kg	14.1	6.45	20
Methoxychlor	ND		ug/kg	63.6	19.8	20
Toxaphene	ND		ug/kg	636	178.	20
cis-Chlordane	ND		ug/kg	42.4	11.8	20
trans-Chlordane	ND		ug/kg	42.4	11.2	20
Chlordane	ND		ug/kg	275	112.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-30  
**Client ID:** SB-17\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 23:08  
**Analyst:** BW  
**Percent Solids:** 82%

**Date Collected:** 04/19/13 11:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 15:40  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.91	0.375	1
Lindane	ND		ug/kg	0.797	0.356	1
Alpha-BHC	ND		ug/kg	0.797	0.226	1
Beta-BHC	ND		ug/kg	1.91	0.726	1
Heptachlor	ND		ug/kg	0.957	0.429	1
Aldrin	ND		ug/kg	1.91	0.674	1
Heptachlor epoxide	ND		ug/kg	3.59	1.08	1
Endrin	ND		ug/kg	0.797	0.327	1
Endrin ketone	ND		ug/kg	1.91	0.493	1
Dieldrin	ND		ug/kg	1.20	0.598	1
4,4'-DDE	ND		ug/kg	1.91	0.442	1
4,4'-DDD	ND		ug/kg	1.91	0.682	1
4,4'-DDT	ND		ug/kg	3.59	1.54	1
Endosulfan I	ND		ug/kg	1.91	0.452	1
Endosulfan II	ND		ug/kg	1.91	0.639	1
Endosulfan sulfate	ND		ug/kg	0.797	0.364	1
Methoxychlor	ND		ug/kg	3.59	1.12	1
Toxaphene	ND		ug/kg	35.9	10.0	1
cis-Chlordane	ND		ug/kg	2.39	0.666	1
trans-Chlordane	ND		ug/kg	2.39	0.631	1
Chlordane	ND		ug/kg	15.5	6.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	140		30-150	A
Decachlorobiphenyl	259	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	312	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-31      D  
**Client ID:** SB-11\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/25/13 07:54  
**Analyst:** BW  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 11:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 16:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	36.8	7.21	20
Lindane	ND		ug/kg	15.3	6.85	20
Alpha-BHC	ND		ug/kg	15.3	4.35	20
Beta-BHC	ND		ug/kg	36.8	14.0	20
Heptachlor	ND		ug/kg	18.4	8.25	20
Aldrin	ND		ug/kg	36.8	13.0	20
Heptachlor epoxide	ND		ug/kg	69.0	20.7	20
Endrin	ND		ug/kg	15.3	6.29	20
Endrin ketone	ND		ug/kg	36.8	9.48	20
Dieldrin	ND		ug/kg	23.0	11.5	20
4,4'-DDE	ND		ug/kg	36.8	8.51	20
4,4'-DDD	ND		ug/kg	36.8	13.1	20
4,4'-DDT	ND		ug/kg	69.0	29.6	20
Endosulfan I	ND		ug/kg	36.8	8.69	20
Endosulfan II	ND		ug/kg	36.8	12.3	20
Endosulfan sulfate	ND		ug/kg	15.3	7.01	20
Methoxychlor	ND		ug/kg	69.0	21.5	20
Toxaphene	ND		ug/kg	690	193.	20
cis-Chlordane	ND		ug/kg	46.0	12.8	20
trans-Chlordane	ND		ug/kg	46.0	12.1	20
Chlordane	ND		ug/kg	299	122.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-32  
**Client ID:** SB-11\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/25/13 08:20  
**Analyst:** BW  
**Percent Solids:** 91%

**Date Collected:** 04/19/13 11:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 16:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.72	0.336	1
Lindane	ND		ug/kg	0.715	0.320	1
Alpha-BHC	ND		ug/kg	0.715	0.203	1
Beta-BHC	ND		ug/kg	1.72	0.651	1
Heptachlor	ND		ug/kg	0.858	0.385	1
Aldrin	ND		ug/kg	1.72	0.604	1
Heptachlor epoxide	ND		ug/kg	3.22	0.966	1
Endrin	ND		ug/kg	0.715	0.293	1
Endrin ketone	ND		ug/kg	1.72	0.442	1
Dieldrin	ND		ug/kg	1.07	0.536	1
4,4'-DDE	ND		ug/kg	1.72	0.397	1
4,4'-DDD	ND		ug/kg	1.72	0.612	1
4,4'-DDT	ND		ug/kg	3.22	1.38	1
Endosulfan I	ND		ug/kg	1.72	0.406	1
Endosulfan II	ND		ug/kg	1.72	0.574	1
Endosulfan sulfate	ND		ug/kg	0.715	0.327	1
Methoxychlor	ND		ug/kg	3.22	1.00	1
Toxaphene	ND		ug/kg	32.2	9.01	1
cis-Chlordane	ND		ug/kg	2.15	0.598	1
trans-Chlordane	ND		ug/kg	2.15	0.567	1
Chlordane	ND		ug/kg	14.0	5.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	84		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-33  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 23:46  
**Analyst:** BW  
**Percent Solids:** 79%

**Date Collected:** 04/19/13 12:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 16:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Dieldrin	14.0	P	ug/kg	1.25	0.624	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	128		30-150	A
2,4,5,6-Tetrachloro-m-xylene	107		30-150	B
Decachlorobiphenyl	200	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-33  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 23:46  
**Analyst:** BW  
**Percent Solids:** 79%

**Date Collected:** 04/19/13 12:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 16:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	2.00	0.391	1
Lindane	ND		ug/kg	0.833	0.372	1
Alpha-BHC	ND		ug/kg	0.833	0.236	1
Beta-BHC	ND		ug/kg	2.00	0.758	1
Heptachlor	ND		ug/kg	0.999	0.448	1
Aldrin	ND		ug/kg	2.00	0.704	1
Heptachlor epoxide	ND		ug/kg	3.75	1.12	1
Endrin	ND		ug/kg	0.833	0.341	1
Endrin ketone	ND		ug/kg	2.00	0.515	1
4,4'-DDE	ND		ug/kg	2.00	0.462	1
4,4'-DDD	ND		ug/kg	2.00	0.713	1
4,4'-DDT	ND		ug/kg	3.75	1.61	1
Endosulfan I	ND		ug/kg	2.00	0.472	1
Endosulfan II	ND		ug/kg	2.00	0.668	1
Endosulfan sulfate	ND		ug/kg	0.833	0.380	1
Methoxychlor	ND		ug/kg	3.75	1.16	1
Toxaphene	ND		ug/kg	37.5	10.5	1
cis-Chlordane	ND		ug/kg	2.50	0.696	1
trans-Chlordane	ND		ug/kg	2.50	0.660	1
Chlordane	ND		ug/kg	16.2	6.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	128		30-150	A
2,4,5,6-Tetrachloro-m-xylene	107		30-150	B
Decachlorobiphenyl	200	Q	30-150	B



**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-34  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 23:59  
**Analyst:** BW  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 12:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 16:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Dieldrin	9.26	P	ug/kg	1.16	0.581	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	124		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-34  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 23:59  
**Analyst:** BW  
**Percent Solids:** 84%

**Date Collected:** 04/19/13 12:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 16:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.86	0.364	1
Lindane	ND		ug/kg	0.775	0.346	1
Alpha-BHC	ND		ug/kg	0.775	0.220	1
Beta-BHC	ND		ug/kg	1.86	0.705	1
Heptachlor	ND		ug/kg	0.930	0.417	1
Aldrin	ND		ug/kg	1.86	0.654	1
Heptachlor epoxide	ND		ug/kg	3.48	1.04	1
Endrin	ND		ug/kg	0.775	0.318	1
Endrin ketone	ND		ug/kg	1.86	0.479	1
4,4'-DDE	ND		ug/kg	1.86	0.430	1
4,4'-DDD	ND		ug/kg	1.86	0.663	1
4,4'-DDT	ND		ug/kg	3.48	1.50	1
Endosulfan I	ND		ug/kg	1.86	0.439	1
Endosulfan II	ND		ug/kg	1.86	0.621	1
Endosulfan sulfate	ND		ug/kg	0.775	0.354	1
Methoxychlor	ND		ug/kg	3.48	1.08	1
Toxaphene	ND		ug/kg	34.8	9.76	1
cis-Chlordane	ND		ug/kg	2.32	0.648	1
trans-Chlordane	ND		ug/kg	2.32	0.614	1
Chlordane	ND		ug/kg	15.1	6.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	124		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-35  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Water  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 13:11  
**Analyst:** BW

**Date Collected:** 04/19/13 00:00  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/20/13 14:26  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	0.005	1
Lindane	ND		ug/l	0.020	0.004	1
Alpha-BHC	ND		ug/l	0.020	0.004	1
Beta-BHC	ND		ug/l	0.020	0.006	1
Heptachlor	ND		ug/l	0.020	0.003	1
Aldrin	ND		ug/l	0.020	0.002	1
Heptachlor epoxide	ND		ug/l	0.020	0.004	1
Endrin	ND		ug/l	0.040	0.004	1
Endrin ketone	ND		ug/l	0.040	0.005	1
Dieldrin	ND		ug/l	0.040	0.004	1
4,4'-DDE	ND		ug/l	0.040	0.004	1
4,4'-DDD	ND		ug/l	0.040	0.005	1
4,4'-DDT	ND		ug/l	0.040	0.004	1
Endosulfan I	ND		ug/l	0.020	0.003	1
Endosulfan II	ND		ug/l	0.040	0.005	1
Endosulfan sulfate	ND		ug/l	0.040	0.005	1
Methoxychlor	ND		ug/l	0.200	0.007	1
Toxaphene	ND		ug/l	0.200	0.063	1
cis-Chlordane	ND		ug/l	0.020	0.007	1
trans-Chlordane	ND		ug/l	0.020	0.006	1
Chlordane	ND		ug/l	0.200	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	113		30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-37      D  
**Client ID:** SB-26\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/25/13 08:07  
**Analyst:** BW  
**Percent Solids:** 85%

**Date Collected:** 04/18/13 17:25  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 16:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	18.6	3.65	10
Lindane	64.6	P	ug/kg	7.76	3.47	10
Alpha-BHC	ND		ug/kg	7.76	2.20	10
Beta-BHC	ND		ug/kg	18.6	7.07	10
Heptachlor	ND		ug/kg	9.32	4.18	10
Aldrin	ND		ug/kg	18.6	6.56	10
Heptachlor epoxide	ND		ug/kg	34.9	10.5	10
Endrin	ND		ug/kg	7.76	3.18	10
Endrin ketone	ND		ug/kg	18.6	4.80	10
Dieldrin	31.4		ug/kg	11.6	5.82	10
4,4'-DDE	ND		ug/kg	18.6	4.31	10
4,4'-DDD	13.7	J	ug/kg	18.6	6.65	10
4,4'-DDT	ND		ug/kg	34.9	15.0	10
Endosulfan I	ND		ug/kg	18.6	4.40	10
Endosulfan II	ND		ug/kg	18.6	6.23	10
Endosulfan sulfate	ND		ug/kg	7.76	3.55	10
Methoxychlor	ND		ug/kg	34.9	10.9	10
Toxaphene	ND		ug/kg	349	97.8	10
cis-Chlordane	ND		ug/kg	23.3	6.49	10
trans-Chlordane	ND		ug/kg	23.3	6.15	10
Chlordane	ND		ug/kg	151	61.7	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		30-150	A
Decachlorobiphenyl	118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	114		30-150	B
Decachlorobiphenyl	637	Q	30-150	B

**Project Name:** 514 W. 27TH ST. NYC**Lab Number:** L1307016**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307016-38  
**Client ID:** SB-26\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/23/13 18:40  
**Analyst:** BW  
**Percent Solids:** 88%

**Date Collected:** 04/18/13 17:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 04/21/13 16:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.72	0.336	1
Lindane	ND		ug/kg	0.715	0.320	1
Alpha-BHC	ND		ug/kg	0.715	0.203	1
Beta-BHC	ND		ug/kg	1.72	0.651	1
Heptachlor	ND		ug/kg	0.858	0.385	1
Aldrin	ND		ug/kg	1.72	0.604	1
Heptachlor epoxide	ND		ug/kg	3.22	0.965	1
Endrin	ND		ug/kg	0.715	0.293	1
Endrin ketone	ND		ug/kg	1.72	0.442	1
Dieldrin	ND		ug/kg	1.07	0.536	1
4,4'-DDE	ND		ug/kg	1.72	0.397	1
4,4'-DDD	ND		ug/kg	1.72	0.612	1
4,4'-DDT	ND		ug/kg	3.22	1.38	1
Endosulfan I	ND		ug/kg	1.72	0.406	1
Endosulfan II	ND		ug/kg	1.72	0.574	1
Endosulfan sulfate	ND		ug/kg	0.715	0.327	1
Methoxychlor	ND		ug/kg	3.22	1.00	1
Toxaphene	ND		ug/kg	32.2	9.01	1
cis-Chlordane	ND		ug/kg	2.14	0.598	1
trans-Chlordane	ND		ug/kg	2.14	0.566	1
Chlordane	ND		ug/kg	13.9	5.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 04/23/13 12:21  
 Analyst: BW

Extraction Method: EPA 3510C  
 Extraction Date: 04/20/13 14:26  
 Cleanup Method1: EPA 3620B  
 Cleanup Date1: 04/22/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 35 Batch: WG602892-1					
Delta-BHC	ND		ug/l	0.020	0.005
Lindane	ND		ug/l	0.020	0.004
Alpha-BHC	ND		ug/l	0.020	0.004
Beta-BHC	ND		ug/l	0.020	0.006
Heptachlor	ND		ug/l	0.020	0.003
Aldrin	ND		ug/l	0.020	0.002
Heptachlor epoxide	ND		ug/l	0.020	0.004
Endrin	ND		ug/l	0.040	0.004
Endrin ketone	ND		ug/l	0.040	0.005
Dieldrin	ND		ug/l	0.040	0.004
4,4'-DDE	ND		ug/l	0.040	0.004
4,4'-DDD	ND		ug/l	0.040	0.005
4,4'-DDT	ND		ug/l	0.040	0.004
Endosulfan I	ND		ug/l	0.020	0.003
Endosulfan II	ND		ug/l	0.040	0.005
Endosulfan sulfate	ND		ug/l	0.040	0.005
Methoxychlor	ND		ug/l	0.200	0.007
Toxaphene	ND		ug/l	0.200	0.063
cis-Chlordane	ND		ug/l	0.020	0.007
trans-Chlordane	ND		ug/l	0.020	0.006
Chlordane	ND		ug/l	0.200	0.046

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	114		30-150	B

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 04/24/13 14:29  
 Analyst: BW

Extraction Method: EPA 3546  
 Extraction Date: 04/21/13 14:15  
 Cleanup Method1: EPA 3620B  
 Cleanup Date1: 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-13,15-20 Batch: WG602938-1					
Delta-BHC	ND		ug/kg	1.58	0.309
Lindane	ND		ug/kg	0.657	0.294
Alpha-BHC	ND		ug/kg	0.657	0.186
Beta-BHC	ND		ug/kg	1.58	0.598
Heptachlor	ND		ug/kg	0.788	0.353
Aldrin	ND		ug/kg	1.58	0.555
Heptachlor epoxide	ND		ug/kg	2.96	0.887
Endrin	ND		ug/kg	0.657	0.269
Endrin ketone	ND		ug/kg	1.58	0.406
Dieldrin	ND		ug/kg	0.986	0.493
4,4'-DDE	ND		ug/kg	1.58	0.365
4,4'-DDD	ND		ug/kg	1.58	0.562
4,4'-DDT	ND		ug/kg	2.96	1.27
Endosulfan I	ND		ug/kg	1.58	0.372
Endosulfan II	ND		ug/kg	1.58	0.527
Endosulfan sulfate	ND		ug/kg	0.657	0.300
Methoxychlor	ND		ug/kg	2.96	0.920
Toxaphene	ND		ug/kg	29.6	8.28
cis-Chlordane	ND		ug/kg	1.97	0.549
trans-Chlordane	ND		ug/kg	1.97	0.520
Chlordane	ND		ug/kg	12.8	5.22

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 04/25/13 07:29  
 Analyst: BW

Extraction Method: EPA 3546  
 Extraction Date: 04/21/13 15:40  
 Cleanup Method1: EPA 3620B  
 Cleanup Date1: 04/23/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 21-34,37-38 Batch: WG602943-1					
Delta-BHC	ND		ug/kg	1.57	0.307
Lindane	ND		ug/kg	0.653	0.292
Alpha-BHC	ND		ug/kg	0.653	0.185
Beta-BHC	ND		ug/kg	1.57	0.594
Heptachlor	ND		ug/kg	0.783	0.351
Aldrin	ND		ug/kg	1.57	0.552
Heptachlor epoxide	ND		ug/kg	2.94	0.881
Endrin	ND		ug/kg	0.653	0.268
Endrin ketone	ND		ug/kg	1.57	0.403
Dieldrin	ND		ug/kg	0.979	0.490
4,4'-DDE	ND		ug/kg	1.57	0.362
4,4'-DDD	ND		ug/kg	1.57	0.559
4,4'-DDT	ND		ug/kg	2.94	1.26
Endosulfan I	ND		ug/kg	1.57	0.370
Endosulfan II	ND		ug/kg	1.57	0.523
Endosulfan sulfate	ND		ug/kg	0.653	0.298
Methoxychlor	ND		ug/kg	2.94	0.914
Toxaphene	ND		ug/kg	29.4	8.22
cis-Chlordane	ND		ug/kg	1.96	0.546
trans-Chlordane	ND		ug/kg	1.96	0.517
Chlordane	ND		ug/kg	12.7	5.19

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	115		30-150	B



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 04/25/13 08:33  
 Analyst: BW

Extraction Method: EPA 3546  
 Extraction Date: 04/24/13 18:44  
 Cleanup Method1: EPA 3620B  
 Cleanup Date1: 04/25/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 14 Batch: WG603801-1					
Delta-BHC	ND		ug/kg	1.57	0.307
Lindane	ND		ug/kg	0.653	0.292
Alpha-BHC	ND		ug/kg	0.653	0.185
Beta-BHC	ND		ug/kg	1.57	0.594
Heptachlor	ND		ug/kg	0.783	0.351
Aldrin	ND		ug/kg	1.57	0.552
Heptachlor epoxide	ND		ug/kg	2.94	0.881
Endrin	ND		ug/kg	0.653	0.268
Endrin ketone	ND		ug/kg	1.57	0.403
Dieldrin	ND		ug/kg	0.979	0.490
4,4'-DDE	ND		ug/kg	1.57	0.362
4,4'-DDD	ND		ug/kg	1.57	0.559
4,4'-DDT	ND		ug/kg	2.94	1.26
Endosulfan I	ND		ug/kg	1.57	0.370
Endosulfan II	ND		ug/kg	1.57	0.523
Endosulfan sulfate	ND		ug/kg	0.653	0.298
Methoxychlor	ND		ug/kg	2.94	0.914
Toxaphene	ND		ug/kg	29.4	8.22
cis-Chlordane	ND		ug/kg	1.96	0.546
trans-Chlordane	ND		ug/kg	1.96	0.517
Chlordane	ND		ug/kg	12.7	5.19

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	60		30-150	B

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 35 Batch: WG602892-2 WG602892-3								
Delta-BHC	92		93		30-150	1		20
Lindane	101		104		30-150	3		20
Alpha-BHC	104		107		30-150	3		20
Beta-BHC	101		103		30-150	2		20
Heptachlor	92		94		30-150	2		20
Aldrin	89		90		30-150	2		20
Heptachlor epoxide	108		109		30-150	1		20
Endrin	118		121		30-150	3		20
Endrin ketone	88		88		30-150	0		20
Dieldrin	111		113		30-150	2		20
4,4'-DDE	104		118		30-150	13		20
4,4'-DDD	101		103		30-150	2		20
4,4'-DDT	106		108		30-150	2		20
Endosulfan I	108		111		30-150	3		20
Endosulfan II	95		99		30-150	4		20
Endosulfan sulfate	81		86		30-150	5		20
Methoxychlor	115		119		30-150	3		20
cis-Chlordane	105		106		30-150	1		20
trans-Chlordane	111		111		30-150	0		20

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 35 Batch: WG602892-2 WG602892-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		90		30-150	A
Decachlorobiphenyl	71		61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		83		30-150	B
Decachlorobiphenyl	127		111		30-150	B

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-13,15-20 Batch: WG602938-2 WG602938-3

Delta-BHC	85		81		30-150	5	30
Lindane	89		84		30-150	6	30
Alpha-BHC	91		87		30-150	4	30
Beta-BHC	91		88		30-150	3	30
Heptachlor	93		90		30-150	3	30
Aldrin	94		90		30-150	4	30
Heptachlor epoxide	93		90		30-150	3	30
Endrin	103		99		30-150	4	30
Endrin ketone	83		77		30-150	8	30

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-13,15-20 Batch: WG602938-2 WG602938-3								
Dieldrin	95		91		30-150	4		30
4,4'-DDE	92		91		30-150	1		30
4,4'-DDD	88		86		30-150	2		30
4,4'-DDT	93		89		30-150	4		30
Endosulfan I	93		90		30-150	3		30
Endosulfan II	85		82		30-150	4		30
Endosulfan sulfate	80		76		30-150	5		30
Methoxychlor	104		99		30-150	5		30
cis-Chlordane	93		90		30-150	3		30
trans-Chlordane	97		95		30-150	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		97		30-150	A
Decachlorobiphenyl	62		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		86		30-150	B
Decachlorobiphenyl	99		98		30-150	B

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 21-34,37-38 Batch: WG602943-2 WG602943-3								
Delta-BHC	73		83		30-150	13		30
Lindane	81		93		30-150	14		30
Alpha-BHC	82		96		30-150	16		30
Beta-BHC	81		102		30-150	23		30
Heptachlor	83		96		30-150	15		30
Aldrin	85		97		30-150	13		30
Heptachlor epoxide	85		97		30-150	13		30
Endrin	92		106		30-150	14		30
Endrin ketone	73		85		30-150	15		30
Dieldrin	86		99		30-150	14		30
4,4'-DDE	83		96		30-150	15		30
4,4'-DDD	80		89		30-150	11		30
4,4'-DDT	81		93		30-150	14		30
Endosulfan I	84		96		30-150	13		30
Endosulfan II	75		86		30-150	14		30
Endosulfan sulfate	71		83		30-150	16		30
Methoxychlor	86		106		30-150	21		30
cis-Chlordane	83		94		30-150	12		30
trans-Chlordane	92		103		30-150	11		30

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 21-34,37-38 Batch: WG602943-2 WG602943-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		110		30-150	A
Decachlorobiphenyl	66		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		100		30-150	B
Decachlorobiphenyl	100		117		30-150	B

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 14 Batch: WG603801-2 WG603801-3

Delta-BHC	74		82		30-150	10	30
Lindane	75		88		30-150	16	30
Alpha-BHC	81		88		30-150	8	30
Beta-BHC	78		88		30-150	12	30
Heptachlor	82		92		30-150	11	30
Aldrin	83		92		30-150	10	30
Heptachlor epoxide	82		90		30-150	9	30
Endrin	88		100		30-150	13	30
Endrin ketone	58		70		30-150	19	30

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 14 Batch: WG603801-2 WG603801-3								
Dieldrin	82		90		30-150	9		30
4,4'-DDE	83		90		30-150	8		30
4,4'-DDD	76		86		30-150	12		30
4,4'-DDT	78		88		30-150	12		30
Endosulfan I	82		90		30-150	9		30
Endosulfan II	68		80		30-150	16		30
Endosulfan sulfate	56		68		30-150	19		30
Methoxychlor	81		95		30-150	16		30
cis-Chlordane	81		90		30-150	11		30
trans-Chlordane	83		90		30-150	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		98		30-150	A
Decachlorobiphenyl	59		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		81		30-150	B
Decachlorobiphenyl	69		79		30-150	B

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-13,15-20 QC Batch ID: WG602938-4 WG602938-5 QC Sample: L1307016-17 Client ID: SB-27\_7-9

Delta-BHC	ND	36.5	28.3	78		23.7	65		30-150	18		50
Lindane	ND	36.5	30.6	84		25.7	70		30-150	17		50
Alpha-BHC	ND	36.5	31.2	86		26.3	72		30-150	17		50
Beta-BHC	ND	36.5	26.5	73		22.0	60		30-150	19		50
Heptachlor	ND	36.5	31.9	87		27.2	74		30-150	16		50
Aldrin	ND	36.5	34.4	94		28.9	79		30-150	17		50
Heptachlor epoxide	ND	36.5	32.3	89		27.2	74		30-150	17		50
Endrin	ND	36.5	44.3	121		35.5	97		30-150	22		50
Endrin ketone	ND	36.5	25.5	70		21.0	58		30-150	19		50
Dieldrin	ND	36.5	34.1	93		29.1	80		30-150	16		50
4,4'-DDE	ND	36.5	21.1	58		18.0	49		30-150	16		50
4,4'-DDD	ND	36.5	29.1	80		24.1	66		30-150	19		50
4,4'-DDT	ND	36.5	33.7	92		27.8	76		30-150	19		50
Endosulfan I	ND	36.5	33.8	93		28.3	77		30-150	18		50
Endosulfan II	ND	36.5	29.6	81		24.4	67		30-150	19		50
Endosulfan sulfate	ND	36.5	21.6	59		18.2	50		30-150	17		50
Methoxychlor	ND	36.5	28.1	77		23.3	64		30-150	19		50
cis-Chlordane	ND	36.5	29.4	81		25.0	68		30-150	16		50
trans-Chlordane	ND	36.5	30.4	83		26.0	71		30-150	16		50



# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-13,15-20 QC Batch ID: WG602938-4 WG602938-5 QC Sample: L1307016-17 Client ID: SB-27\_7-9

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		83		30-150	A
Decachlorobiphenyl	89		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		64		30-150	B
Decachlorobiphenyl	70		65		30-150	B

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 21-34,37-38 QC Batch ID: WG602943-6 WG602943-7 QC Sample: L1307016-27 Client ID: SB-23\_0-2

Delta-BHC	ND	39.7	30.5	77		34.4	87		30-150	12		50
Lindane	ND	39.7	33.4	84		38.9	98		30-150	15		50
Alpha-BHC	ND	39.7	35.0	88		39.3	99		30-150	12		50
Beta-BHC	ND	39.7	33.5	84		35.9	91		30-150	7		50
Heptachlor	ND	39.7	34.2	86		40.4	102		30-150	17		50
Aldrin	ND	39.7	34.5	87		40.3	102		30-150	16		50
Heptachlor epoxide	ND	39.7	34.4	87		38.0	96		30-150	10		50
Endrin	ND	39.7	36.1	91		42.8	108		30-150	17		50
Endrin ketone	ND	39.7	26.4	67		31.0	78		30-150	16		50
Dieldrin	ND	39.7	35.0	88		39.4	100		30-150	12		50
4,4'-DDE	ND	39.7	32.1	81		32.9	83		30-150	2		50
4,4'-DDD	ND	39.7	29.1	73		31.9	81		30-150	9		50
4,4'-DDT	ND	39.7	34.0	86		37.6	95		30-150	10		50
Endosulfan I	ND	39.7	33.6	85		37.4	95		30-150	11		50
Endosulfan II	ND	39.7	27.0	68		30.0	76		30-150	11		50
Endosulfan sulfate	ND	39.7	21.6	54		23.4	59		30-150	8		50
Methoxychlor	ND	39.7	34.2	86		39.1	99		30-150	13		50
cis-Chlordane	ND	39.7	32.5	82		35.7	90		30-150	9		50
trans-Chlordane	ND	39.7	38.6	97		41.0	104		30-150	6		50

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 21-34,37-38 QC Batch ID: WG602943-6 WG602943-7 QC Sample: L1307016-27 Client ID: SB-23\_0-2

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		115		30-150	A
Decachlorobiphenyl	61		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		99		30-150	B
Decachlorobiphenyl	110		100		30-150	B

## METALS

Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-01

Date Collected: 04/18/13 15:40

Client ID: SB-12\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	12000		mg/kg	9.0	1.8	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Antimony, Total	2.3	J	mg/kg	4.5	0.90	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Arsenic, Total	3.0		mg/kg	0.90	0.27	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Barium, Total	94		mg/kg	0.90	0.27	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Beryllium, Total	0.49		mg/kg	0.45	0.04	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.90	0.05	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Calcium, Total	11000		mg/kg	9.0	1.8	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Chromium, Total	16		mg/kg	0.90	0.18	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Cobalt, Total	8.2		mg/kg	1.8	0.45	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Copper, Total	58		mg/kg	0.90	0.45	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Iron, Total	18000		mg/kg	4.5	1.8	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Lead, Total	230		mg/kg	4.5	0.27	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Magnesium, Total	3800		mg/kg	9.0	3.6	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Manganese, Total	340		mg/kg	0.90	0.18	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Mercury, Total	0.16		mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 12:54	EPA 7471B	1,7471B	MC
Nickel, Total	16		mg/kg	2.2	0.36	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Potassium, Total	3400		mg/kg	220	72.	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Selenium, Total	0.61	J	mg/kg	1.8	0.27	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.90	0.18	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Sodium, Total	210		mg/kg	180	72.	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Thallium, Total	0.96	J	mg/kg	1.8	0.54	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Vanadium, Total	23		mg/kg	0.90	0.18	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG
Zinc, Total	64		mg/kg	4.5	0.45	2	04/22/13 13:36	04/23/13 09:37	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-02

Date Collected: 04/18/13 15:50

Client ID: SB-12\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7800		mg/kg	8.8	1.8	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Antimony, Total	1.5	J	mg/kg	4.4	0.88	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Arsenic, Total	2.9		mg/kg	0.88	0.26	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Barium, Total	33		mg/kg	0.88	0.26	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Beryllium, Total	0.34	J	mg/kg	0.44	0.04	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.88	0.05	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Calcium, Total	860		mg/kg	8.8	1.8	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Chromium, Total	11		mg/kg	0.88	0.18	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Cobalt, Total	5.9		mg/kg	1.8	0.44	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Copper, Total	16		mg/kg	0.88	0.44	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Iron, Total	13000		mg/kg	4.4	1.8	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Lead, Total	7.3		mg/kg	4.4	0.26	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Magnesium, Total	2800		mg/kg	8.8	3.5	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Manganese, Total	270		mg/kg	0.88	0.18	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 12:56	EPA 7471B	1,7471B	MC
Nickel, Total	14		mg/kg	2.2	0.35	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Potassium, Total	600		mg/kg	220	70.	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.26	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.88	0.18	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Sodium, Total	150	J	mg/kg	180	70.	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.52	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Vanadium, Total	15		mg/kg	0.88	0.18	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG
Zinc, Total	40		mg/kg	4.4	0.44	2	04/22/13 13:36	04/23/13 09:39	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-03

Date Collected: 04/18/13 16:10

Client ID: SB-9\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7800		mg/kg	7.8	1.6	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Antimony, Total	2.7	J	mg/kg	3.9	0.78	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Arsenic, Total	3.0		mg/kg	0.78	0.24	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Barium, Total	110		mg/kg	0.78	0.24	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Beryllium, Total	0.38	J	mg/kg	0.39	0.03	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Cadmium, Total	0.15	J	mg/kg	0.78	0.05	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Calcium, Total	5300		mg/kg	7.8	1.6	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Chromium, Total	17		mg/kg	0.78	0.16	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Cobalt, Total	6.6		mg/kg	1.6	0.39	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Copper, Total	37		mg/kg	0.78	0.39	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Iron, Total	20000		mg/kg	3.9	1.6	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Lead, Total	120		mg/kg	3.9	0.24	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Magnesium, Total	2600		mg/kg	7.8	3.1	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Manganese, Total	310		mg/kg	0.78	0.16	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Mercury, Total	6.6		mg/kg	0.42	0.09	5	04/23/13 08:25	04/23/13 16:00	EPA 7471B	1,7471B	MC
Nickel, Total	16		mg/kg	2.0	0.31	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Potassium, Total	2900		mg/kg	200	63.	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Selenium, Total	0.38	J	mg/kg	1.6	0.24	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Silver, Total	0.16	J	mg/kg	0.78	0.16	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Sodium, Total	220		mg/kg	160	63.	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Thallium, Total	0.91	J	mg/kg	1.6	0.47	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Vanadium, Total	19		mg/kg	0.78	0.16	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG
Zinc, Total	130		mg/kg	3.9	0.39	2	04/22/13 13:36	04/23/13 09:42	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-04

Date Collected: 04/18/13 16:20

Client ID: SB-9\_3-5

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9300		mg/kg	8.9	1.8	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Antimony, Total	1.7	J	mg/kg	4.5	0.89	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Arsenic, Total	5.3		mg/kg	0.89	0.27	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Barium, Total	71		mg/kg	0.89	0.27	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Beryllium, Total	0.49		mg/kg	0.45	0.04	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.89	0.05	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Calcium, Total	3300		mg/kg	8.9	1.8	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Chromium, Total	24		mg/kg	0.89	0.18	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Cobalt, Total	8.1		mg/kg	1.8	0.45	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Copper, Total	28		mg/kg	0.89	0.45	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Iron, Total	16000		mg/kg	4.5	1.8	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Lead, Total	180		mg/kg	4.5	0.27	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Magnesium, Total	2900		mg/kg	8.9	3.6	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Manganese, Total	340		mg/kg	0.89	0.18	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Mercury, Total	0.36		mg/kg	0.09	0.02	1	04/23/13 08:25	04/23/13 13:05	EPA 7471B	1,7471B	MC
Nickel, Total	30		mg/kg	2.2	0.36	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Potassium, Total	970		mg/kg	220	71.	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Selenium, Total	0.38	J	mg/kg	1.8	0.27	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.89	0.18	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Sodium, Total	500		mg/kg	180	71.	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.54	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Vanadium, Total	19		mg/kg	0.89	0.18	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG
Zinc, Total	65		mg/kg	4.5	0.45	2	04/22/13 13:36	04/23/13 10:11	EPA 3050B	1,6010C	MG





Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-05

Date Collected: 04/18/13 16:30

Client ID: SB-13\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6700		mg/kg	9.2	1.8	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Antimony, Total	32		mg/kg	4.6	0.92	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Arsenic, Total	16		mg/kg	0.92	0.28	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Barium, Total	250		mg/kg	0.92	0.28	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Beryllium, Total	0.29	J	mg/kg	0.46	0.04	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Cadmium, Total	2.4		mg/kg	0.92	0.06	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Calcium, Total	17000		mg/kg	9.2	1.8	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Chromium, Total	2300		mg/kg	0.92	0.18	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Cobalt, Total	31		mg/kg	1.8	0.46	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Copper, Total	590		mg/kg	0.92	0.46	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Iron, Total	59000		mg/kg	4.6	1.8	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Lead, Total	1500		mg/kg	4.6	0.28	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Magnesium, Total	7800		mg/kg	9.2	3.7	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Manganese, Total	640		mg/kg	0.92	0.18	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Mercury, Total	1.4		mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 13:07	EPA 7471B	1,7471B	MC
Nickel, Total	1100		mg/kg	2.3	0.37	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Potassium, Total	1000		mg/kg	230	74.	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Selenium, Total	0.72	J	mg/kg	1.8	0.28	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Silver, Total	1.7		mg/kg	0.92	0.18	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Sodium, Total	710		mg/kg	180	74.	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Thallium, Total	2.2		mg/kg	1.8	0.55	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Vanadium, Total	45		mg/kg	0.92	0.18	2	04/22/13 13:36	04/23/13 10:14	EPA 3050B	1,6010C	MG
Zinc, Total	1400		mg/kg	120	12.	50	04/22/13 13:36	04/23/13 11:25	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-06

Date Collected: 04/18/13 16:35

Client ID: SB-13\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7200		mg/kg	9.1	1.8	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Antimony, Total	1.0	J	mg/kg	4.5	0.91	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Arsenic, Total	3.3		mg/kg	0.91	0.27	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Barium, Total	21		mg/kg	0.91	0.27	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Beryllium, Total	0.30	J	mg/kg	0.45	0.04	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.91	0.05	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Calcium, Total	820		mg/kg	9.1	1.8	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Chromium, Total	13		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Cobalt, Total	5.6		mg/kg	1.8	0.45	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Copper, Total	14		mg/kg	0.91	0.45	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Iron, Total	12000		mg/kg	4.5	1.8	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Lead, Total	8.0		mg/kg	4.5	0.27	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Magnesium, Total	2300		mg/kg	9.1	3.6	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Manganese, Total	330		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 13:09	EPA 7471B	1,7471B	MC
Nickel, Total	13		mg/kg	2.3	0.36	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Potassium, Total	730		mg/kg	230	73.	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.27	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Sodium, Total	350		mg/kg	180	73.	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.54	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Vanadium, Total	14		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG
Zinc, Total	29		mg/kg	4.5	0.45	2	04/22/13 13:36	04/23/13 10:17	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-07

Date Collected: 04/18/13 16:45

Client ID: SB-18\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5600		mg/kg	9.1	1.8	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Antimony, Total	2.9	J	mg/kg	4.5	0.91	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Arsenic, Total	6.5		mg/kg	0.91	0.27	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Barium, Total	200		mg/kg	0.91	0.27	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Beryllium, Total	0.35	J	mg/kg	0.45	0.04	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Cadmium, Total	1.8		mg/kg	0.91	0.05	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Calcium, Total	35000		mg/kg	9.1	1.8	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Chromium, Total	18		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Cobalt, Total	4.5		mg/kg	1.8	0.45	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Copper, Total	69		mg/kg	0.91	0.45	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Iron, Total	10000		mg/kg	4.5	1.8	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Lead, Total	310		mg/kg	4.5	0.27	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Magnesium, Total	5000		mg/kg	9.1	3.6	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Manganese, Total	350		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Mercury, Total	0.22		mg/kg	0.09	0.02	1	04/23/13 08:25	04/23/13 13:10	EPA 7471B	1,7471B	MC
Nickel, Total	24		mg/kg	2.3	0.36	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Potassium, Total	850		mg/kg	230	73.	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Selenium, Total	0.66	J	mg/kg	1.8	0.27	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Silver, Total	0.61	J	mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Sodium, Total	860		mg/kg	180	73.	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.54	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Vanadium, Total	25		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 10:19	EPA 3050B	1,6010C	MG
Zinc, Total	1300		mg/kg	110	11.	50	04/22/13 13:36	04/23/13 11:28	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-08

Date Collected: 04/18/13 16:50

Client ID: SB-18\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2200		mg/kg	8.6	1.7	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Antimony, Total	0.93	J	mg/kg	4.3	0.86	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Arsenic, Total	3.7		mg/kg	0.86	0.26	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Barium, Total	430		mg/kg	0.86	0.26	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Beryllium, Total	0.12	J	mg/kg	0.43	0.03	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Cadmium, Total	0.20	J	mg/kg	0.86	0.05	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Calcium, Total	51000		mg/kg	430	86.	100	04/22/13 13:36	04/23/13 14:49	EPA 3050B	1,6010C	MG
Chromium, Total	8.8		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Cobalt, Total	2.5		mg/kg	1.7	0.43	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Copper, Total	15		mg/kg	0.86	0.43	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Iron, Total	6600		mg/kg	4.3	1.7	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Lead, Total	410		mg/kg	4.3	0.26	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Magnesium, Total	2200		mg/kg	8.6	3.4	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Manganese, Total	280		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Mercury, Total	0.41		mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 13:12	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	2.2	0.34	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Potassium, Total	460		mg/kg	220	69.	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Selenium, Total	0.44	J	mg/kg	1.7	0.26	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Silver, Total	0.18	J	mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Sodium, Total	550		mg/kg	170	69.	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.52	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Vanadium, Total	6.6		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG
Zinc, Total	320		mg/kg	4.3	0.43	2	04/22/13 13:36	04/23/13 10:22	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-09

Date Collected: 04/18/13 17:05

Client ID: SB-8\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9400		mg/kg	9.9	2.0	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Antimony, Total	1.4	J	mg/kg	4.9	0.99	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Arsenic, Total	4.9		mg/kg	0.99	0.30	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Barium, Total	110		mg/kg	0.99	0.30	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Beryllium, Total	0.44	J	mg/kg	0.49	0.04	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.99	0.06	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Calcium, Total	6100		mg/kg	9.9	2.0	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Chromium, Total	18		mg/kg	0.99	0.20	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Cobalt, Total	7.5		mg/kg	2.0	0.49	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Copper, Total	280		mg/kg	0.99	0.49	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Iron, Total	16000		mg/kg	4.9	2.0	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Lead, Total	110		mg/kg	4.9	0.30	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Magnesium, Total	3400		mg/kg	9.9	4.0	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Manganese, Total	520		mg/kg	0.99	0.20	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Mercury, Total	3.9		mg/kg	0.35	0.07	4	04/23/13 08:25	04/23/13 15:48	EPA 7471B	1,7471B	MC
Nickel, Total	18		mg/kg	2.5	0.40	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Potassium, Total	3300		mg/kg	250	79.	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Selenium, Total	0.83	J	mg/kg	2.0	0.30	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.99	0.20	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Sodium, Total	470		mg/kg	200	79.	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Thallium, Total	0.96	J	mg/kg	2.0	0.59	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Vanadium, Total	23		mg/kg	0.99	0.20	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG
Zinc, Total	64		mg/kg	4.9	0.49	2	04/22/13 13:36	04/23/13 10:25	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-10

Date Collected: 04/18/13 17:15

Client ID: SB-8\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8300		mg/kg	8.4	1.7	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Antimony, Total	0.94	J	mg/kg	4.2	0.84	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Arsenic, Total	2.4		mg/kg	0.84	0.25	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Barium, Total	38		mg/kg	0.84	0.25	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Beryllium, Total	0.35	J	mg/kg	0.42	0.03	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.84	0.05	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Calcium, Total	930		mg/kg	8.4	1.7	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Chromium, Total	10		mg/kg	0.84	0.17	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Cobalt, Total	4.9		mg/kg	1.7	0.42	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Copper, Total	12		mg/kg	0.84	0.42	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Iron, Total	12000		mg/kg	4.2	1.7	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Lead, Total	7.4		mg/kg	4.2	0.25	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Magnesium, Total	2200		mg/kg	8.4	3.4	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Manganese, Total	310		mg/kg	0.84	0.17	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Mercury, Total	0.02	J	mg/kg	0.09	0.02	1	04/23/13 08:25	04/23/13 13:16	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	2.1	0.34	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Potassium, Total	430		mg/kg	210	67.	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Selenium, Total	0.43	J	mg/kg	1.7	0.25	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.84	0.17	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Sodium, Total	68	J	mg/kg	170	67.	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.50	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Vanadium, Total	13		mg/kg	0.84	0.17	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG
Zinc, Total	29		mg/kg	4.2	0.42	2	04/22/13 13:36	04/23/13 10:28	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-11

Date Collected: 04/18/13 08:40

Client ID: SB-28\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6000		mg/kg	10	2.0	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Antimony, Total	2.1	J	mg/kg	5.1	1.0	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Arsenic, Total	5.9		mg/kg	1.0	0.30	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Barium, Total	1200		mg/kg	1.0	0.30	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Beryllium, Total	0.43	J	mg/kg	0.51	0.04	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Cadmium, Total	1.2		mg/kg	1.0	0.06	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Calcium, Total	48000		mg/kg	10	2.0	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Chromium, Total	18		mg/kg	1.0	0.20	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Cobalt, Total	5.3		mg/kg	2.0	0.51	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Copper, Total	23		mg/kg	1.0	0.51	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Iron, Total	12000		mg/kg	5.1	2.0	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Lead, Total	890		mg/kg	5.1	0.30	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Magnesium, Total	4200		mg/kg	10	4.1	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Manganese, Total	460		mg/kg	1.0	0.20	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Mercury, Total	0.95		mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 13:18	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	2.5	0.41	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Potassium, Total	1400		mg/kg	250	81.	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Selenium, Total	0.68	J	mg/kg	2.0	0.30	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	1.0	0.20	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Sodium, Total	720		mg/kg	200	81.	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	2.0	0.61	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Vanadium, Total	32		mg/kg	1.0	0.20	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG
Zinc, Total	840		mg/kg	5.1	0.51	2	04/22/13 13:36	04/23/13 10:31	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-12

Date Collected: 04/18/13 08:50

Client ID: SB-28\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8600		mg/kg	8.6	1.7	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Antimony, Total	2.4	J	mg/kg	4.3	0.86	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Arsenic, Total	6.1		mg/kg	0.86	0.26	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Barium, Total	93		mg/kg	0.86	0.26	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Beryllium, Total	0.43		mg/kg	0.43	0.03	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.86	0.05	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Calcium, Total	30000		mg/kg	8.6	1.7	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Chromium, Total	15		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Cobalt, Total	4.9		mg/kg	1.7	0.43	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Copper, Total	28		mg/kg	0.86	0.43	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Iron, Total	14000		mg/kg	4.3	1.7	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Lead, Total	96		mg/kg	4.3	0.26	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Magnesium, Total	6800		mg/kg	8.6	3.4	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Manganese, Total	450		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Mercury, Total	0.63		mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 13:20	EPA 7471B	1,7471B	MC
Nickel, Total	17		mg/kg	2.2	0.34	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Potassium, Total	1500		mg/kg	220	69.	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Selenium, Total	0.38	J	mg/kg	1.7	0.26	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Sodium, Total	740		mg/kg	170	69.	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.52	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Vanadium, Total	20		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG
Zinc, Total	73		mg/kg	4.3	0.43	2	04/22/13 13:36	04/23/13 10:33	EPA 3050B	1,6010C	MG





Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-13

Date Collected: 04/18/13 09:20

Client ID: SB-25\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9400		mg/kg	9.0	1.8	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Antimony, Total	1.1	J	mg/kg	4.5	0.90	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Arsenic, Total	3.9		mg/kg	0.90	0.27	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Barium, Total	120		mg/kg	0.90	0.27	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Beryllium, Total	0.68		mg/kg	0.45	0.04	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Cadmium, Total	0.22	J	mg/kg	0.90	0.05	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Calcium, Total	3500		mg/kg	9.0	1.8	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Chromium, Total	18		mg/kg	0.90	0.18	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Cobalt, Total	7.9		mg/kg	1.8	0.45	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Copper, Total	18		mg/kg	0.90	0.45	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Iron, Total	7800		mg/kg	4.5	1.8	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Lead, Total	58		mg/kg	4.5	0.27	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Magnesium, Total	2500		mg/kg	9.0	3.6	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Manganese, Total	1400		mg/kg	0.90	0.18	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Mercury, Total	2.7		mg/kg	0.17	0.04	2	04/23/13 08:25	04/23/13 15:50	EPA 7471B	1,7471B	MC
Nickel, Total	20		mg/kg	2.2	0.36	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Potassium, Total	2100		mg/kg	220	72.	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Selenium, Total	1.1	J	mg/kg	1.8	0.27	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Silver, Total	0.26	J	mg/kg	0.90	0.18	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Sodium, Total	2400		mg/kg	180	72.	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.54	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Vanadium, Total	17		mg/kg	0.90	0.18	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG
Zinc, Total	130		mg/kg	4.5	0.45	2	04/22/13 13:36	04/23/13 10:36	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-14

Date Collected: 04/18/13 09:30

Client ID: SB-25\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6400		mg/kg	8.9	1.8	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Antimony, Total	1.7	J	mg/kg	4.5	0.89	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Arsenic, Total	1.6		mg/kg	0.89	0.27	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Barium, Total	57		mg/kg	0.89	0.27	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Beryllium, Total	0.45		mg/kg	0.45	0.04	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.89	0.05	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Calcium, Total	2800		mg/kg	8.9	1.8	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Chromium, Total	14		mg/kg	0.89	0.18	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Cobalt, Total	5.0		mg/kg	1.8	0.45	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Copper, Total	15		mg/kg	0.89	0.45	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Iron, Total	13000		mg/kg	4.5	1.8	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Lead, Total	12		mg/kg	4.5	0.27	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Magnesium, Total	2200		mg/kg	8.9	3.6	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Manganese, Total	370		mg/kg	0.89	0.18	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Mercury, Total	0.75		mg/kg	0.10	0.02	1	04/23/13 08:25	04/23/13 15:42	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.2	0.36	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Potassium, Total	1600		mg/kg	220	71.	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Selenium, Total	0.59	J	mg/kg	1.8	0.27	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.89	0.18	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Sodium, Total	430		mg/kg	180	71.	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.54	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Vanadium, Total	20		mg/kg	0.89	0.18	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG
Zinc, Total	67		mg/kg	4.5	0.45	2	04/22/13 13:36	04/23/13 11:05	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-15

Date Collected: 04/18/13 09:30

Client ID: SB-25\_7-9\_FIELD-DUP

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5000		mg/kg	8.8	1.8	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Antimony, Total	0.97	J	mg/kg	4.4	0.88	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Arsenic, Total	1.4		mg/kg	0.88	0.26	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Barium, Total	45		mg/kg	0.88	0.26	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Beryllium, Total	0.32	J	mg/kg	0.44	0.04	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.88	0.05	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Calcium, Total	3000		mg/kg	8.8	1.8	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Chromium, Total	14		mg/kg	0.88	0.18	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Cobalt, Total	4.2		mg/kg	1.8	0.44	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Copper, Total	11		mg/kg	0.88	0.44	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Iron, Total	10000		mg/kg	4.4	1.8	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Lead, Total	11		mg/kg	4.4	0.26	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Magnesium, Total	1800		mg/kg	8.8	3.5	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Manganese, Total	280		mg/kg	0.88	0.18	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Mercury, Total	0.15		mg/kg	0.09	0.02	1	04/23/13 08:25	04/23/13 15:44	EPA 7471B	1,7471B	MC
Nickel, Total	20		mg/kg	2.2	0.35	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Potassium, Total	1000		mg/kg	220	70.	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.26	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.88	0.18	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Sodium, Total	350		mg/kg	180	70.	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.53	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Vanadium, Total	15		mg/kg	0.88	0.18	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG
Zinc, Total	84		mg/kg	4.4	0.44	2	04/22/13 13:36	04/23/13 11:07	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-16

Date Collected: 04/18/13 14:40

Client ID: SB-27\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4400		mg/kg	9.1	1.8	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Antimony, Total	2.4	J	mg/kg	4.6	0.91	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Arsenic, Total	11		mg/kg	0.91	0.27	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Barium, Total	930		mg/kg	0.91	0.27	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Beryllium, Total	0.28	J	mg/kg	0.46	0.04	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Cadmium, Total	1.5		mg/kg	0.91	0.06	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Calcium, Total	44000		mg/kg	9.1	1.8	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Chromium, Total	27		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Cobalt, Total	3.3		mg/kg	1.8	0.46	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Copper, Total	33		mg/kg	0.91	0.46	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Iron, Total	8600		mg/kg	4.6	1.8	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Lead, Total	420		mg/kg	4.6	0.27	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Magnesium, Total	3500		mg/kg	9.1	3.6	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Manganese, Total	340		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Mercury, Total	0.43		mg/kg	0.10	0.02	1	04/23/13 08:25	04/23/13 15:46	EPA 7471B	1,7471B	MC
Nickel, Total	14		mg/kg	2.3	0.36	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Potassium, Total	1100		mg/kg	230	73.	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Selenium, Total	1.0	J	mg/kg	1.8	0.27	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Silver, Total	0.49	J	mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Sodium, Total	1000		mg/kg	180	73.	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.55	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Vanadium, Total	20		mg/kg	0.91	0.18	2	04/22/13 13:36	04/23/13 11:10	EPA 3050B	1,6010C	MG
Zinc, Total	1200		mg/kg	110	11.	50	04/22/13 13:36	04/23/13 11:31	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-17

Date Collected: 04/18/13 14:50

Client ID: SB-27\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7200		mg/kg	8.5	1.7	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Antimony, Total	1.3	J	mg/kg	4.2	0.85	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Arsenic, Total	3.9		mg/kg	0.85	0.25	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Barium, Total	62		mg/kg	0.85	0.25	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Beryllium, Total	0.45		mg/kg	0.42	0.03	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Cadmium, Total	0.06	J	mg/kg	0.85	0.05	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Calcium, Total	15000		mg/kg	8.5	1.7	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Chromium, Total	12		mg/kg	0.85	0.17	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Cobalt, Total	4.5		mg/kg	1.7	0.42	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Copper, Total	15		mg/kg	0.85	0.42	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Iron, Total	11000		mg/kg	4.2	1.7	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Lead, Total	30		mg/kg	4.2	0.25	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Magnesium, Total	4000		mg/kg	8.5	3.4	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Manganese, Total	380		mg/kg	0.85	0.17	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Mercury, Total	1.6		mg/kg	0.08	0.02	1	04/24/13 13:40	04/24/13 16:51	EPA 7471B	1,7471B	TT
Nickel, Total	11		mg/kg	2.1	0.34	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Potassium, Total	1200		mg/kg	210	68.	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Selenium, Total	0.56	J	mg/kg	1.7	0.25	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.85	0.17	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Sodium, Total	420		mg/kg	170	68.	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Thallium, Total	0.63	J	mg/kg	1.7	0.51	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Vanadium, Total	16		mg/kg	0.85	0.17	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG
Zinc, Total	37		mg/kg	4.2	0.42	2	04/22/13 13:36	04/23/13 09:25	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-18

Date Collected: 04/18/13 15:10

Client ID: SB-10\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7300		mg/kg	8.6	1.7	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Antimony, Total	14		mg/kg	4.3	0.86	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Arsenic, Total	6.5		mg/kg	0.86	0.26	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Barium, Total	270		mg/kg	0.86	0.26	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Beryllium, Total	0.25	J	mg/kg	0.43	0.03	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Cadmium, Total	7.5		mg/kg	0.86	0.05	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Calcium, Total	66000		mg/kg	430	86.	100	04/22/13 13:36	04/23/13 11:34	EPA 3050B	1,6010C	MG
Chromium, Total	67		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Cobalt, Total	20		mg/kg	1.7	0.43	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Copper, Total	420		mg/kg	0.86	0.43	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Iron, Total	30000		mg/kg	4.3	1.7	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Lead, Total	1100		mg/kg	4.3	0.26	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Magnesium, Total	4900		mg/kg	8.6	3.4	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Manganese, Total	340		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Mercury, Total	12		mg/kg	0.99	0.21	12	04/24/13 13:40	04/24/13 17:05	EPA 7471B	1,7471B	TT
Nickel, Total	41		mg/kg	2.1	0.34	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Potassium, Total	1300		mg/kg	210	69.	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Selenium, Total	1.5	J	mg/kg	1.7	0.26	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Silver, Total	7.3		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Sodium, Total	1300		mg/kg	170	69.	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Thallium, Total	1.3	J	mg/kg	1.7	0.52	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Vanadium, Total	28		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 11:13	EPA 3050B	1,6010C	MG
Zinc, Total	2000		mg/kg	210	21.	100	04/22/13 13:36	04/23/13 11:34	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-19

Date Collected: 04/18/13 15:20

Client ID: SB-10\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9600		mg/kg	8.6	1.7	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Antimony, Total	1.6	J	mg/kg	4.3	0.86	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Arsenic, Total	4.2		mg/kg	0.86	0.26	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Barium, Total	42		mg/kg	0.86	0.26	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Beryllium, Total	0.36	J	mg/kg	0.43	0.03	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.86	0.05	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Calcium, Total	1200		mg/kg	8.6	1.7	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Chromium, Total	12		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Cobalt, Total	5.7		mg/kg	1.7	0.43	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Copper, Total	18		mg/kg	0.86	0.43	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Iron, Total	16000		mg/kg	4.3	1.7	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Lead, Total	14		mg/kg	4.3	0.26	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Magnesium, Total	2800		mg/kg	8.6	3.4	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Manganese, Total	450		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Mercury, Total	0.05	J	mg/kg	0.07	0.02	1	04/24/13 13:40	04/24/13 17:00	EPA 7471B	1,7471B	TT
Nickel, Total	14		mg/kg	2.2	0.34	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Potassium, Total	670		mg/kg	220	69.	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Selenium, Total	0.85	J	mg/kg	1.7	0.26	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Sodium, Total	380		mg/kg	170	69.	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.52	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Vanadium, Total	16		mg/kg	0.86	0.17	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG
Zinc, Total	43		mg/kg	4.3	0.43	2	04/22/13 13:36	04/23/13 11:16	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-20

Date Collected: 04/19/13 08:50

Client ID: SB-15\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5100		mg/kg	20	4.0	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Antimony, Total	74		mg/kg	10	2.0	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Arsenic, Total	17		mg/kg	2.0	0.61	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Barium, Total	940		mg/kg	2.0	0.61	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Beryllium, Total	3.8		mg/kg	1.0	0.08	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Cadmium, Total	30		mg/kg	2.0	0.12	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Calcium, Total	62000		mg/kg	20	4.0	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Chromium, Total	100		mg/kg	2.0	0.40	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Cobalt, Total	21		mg/kg	4.0	1.0	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Copper, Total	1300		mg/kg	2.0	1.0	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Iron, Total	120000		mg/kg	10	4.0	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Lead, Total	4500		mg/kg	10	0.61	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Magnesium, Total	4500		mg/kg	20	8.1	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Manganese, Total	1100		mg/kg	2.0	0.40	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Mercury, Total	0.57		mg/kg	0.08	0.02	1	04/24/13 13:40	04/24/13 17:02	EPA 7471B	1,7471B	TT
Nickel, Total	120		mg/kg	5.0	0.81	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Potassium, Total	540		mg/kg	500	160	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Selenium, Total	2.1	J	mg/kg	4.0	0.61	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Silver, Total	4.1		mg/kg	2.0	0.40	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Sodium, Total	3800		mg/kg	400	160	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	4.0	1.2	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Vanadium, Total	29		mg/kg	2.0	0.40	5	04/22/13 13:36	04/23/13 11:22	EPA 3050B	1,6010C	MG
Zinc, Total	11000		mg/kg	200	20.	100	04/22/13 13:36	04/23/13 13:07	EPA 3050B	1,6010C	MG





Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-21

Date Collected: 04/19/13 09:00

Client ID: SB-15\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8200		mg/kg	9.0	1.8	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Antimony, Total	1.6	J	mg/kg	4.5	0.90	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Arsenic, Total	2.1		mg/kg	0.90	0.27	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Barium, Total	43		mg/kg	0.90	0.27	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Beryllium, Total	0.42	J	mg/kg	0.45	0.04	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Cadmium, Total	0.07	J	mg/kg	0.90	0.05	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Calcium, Total	1200		mg/kg	9.0	1.8	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Chromium, Total	18		mg/kg	0.90	0.18	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Cobalt, Total	6.5		mg/kg	1.8	0.45	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Copper, Total	16		mg/kg	0.90	0.45	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Iron, Total	14000		mg/kg	4.5	1.8	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Lead, Total	8.6		mg/kg	4.5	0.27	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Magnesium, Total	3000		mg/kg	9.0	3.6	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Manganese, Total	200		mg/kg	0.90	0.18	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	04/24/13 13:40	04/24/13 17:03	EPA 7471B	1,7471B	TT
Nickel, Total	17		mg/kg	2.3	0.36	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Potassium, Total	760		mg/kg	230	72.	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Selenium, Total	0.42	J	mg/kg	1.8	0.27	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.90	0.18	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Sodium, Total	220		mg/kg	180	72.	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.54	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Vanadium, Total	19		mg/kg	0.90	0.18	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG
Zinc, Total	38		mg/kg	4.5	0.45	2	04/22/13 14:48	04/23/13 12:16	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-22

Date Collected: 04/19/13 09:30

Client ID: SB-16\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4900		mg/kg	10	2.0	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Antimony, Total	100		mg/kg	5.1	1.0	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Arsenic, Total	18		mg/kg	1.0	0.30	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Barium, Total	910		mg/kg	1.0	0.30	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Beryllium, Total	0.23	J	mg/kg	0.51	0.04	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Cadmium, Total	23		mg/kg	1.0	0.06	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Calcium, Total	17000		mg/kg	10	2.0	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Chromium, Total	150		mg/kg	1.0	0.20	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Cobalt, Total	16		mg/kg	2.0	0.51	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Copper, Total	1000		mg/kg	1.0	0.51	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Iron, Total	81000		mg/kg	5.1	2.0	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Lead, Total	2200		mg/kg	5.1	0.30	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Magnesium, Total	2500		mg/kg	10	4.1	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Manganese, Total	680		mg/kg	1.0	0.20	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Mercury, Total	1.8		mg/kg	0.10	0.02	1	04/24/13 13:40	04/24/13 17:13	EPA 7471B	1,7471B	TT
Nickel, Total	140		mg/kg	2.5	0.41	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Potassium, Total	460		mg/kg	250	81.	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Selenium, Total	1.8	J	mg/kg	2.0	0.30	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Silver, Total	5.2		mg/kg	1.0	0.20	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Sodium, Total	2300		mg/kg	200	81.	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Thallium, Total	2.4		mg/kg	2.0	0.61	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Vanadium, Total	48		mg/kg	1.0	0.20	2	04/22/13 14:48	04/23/13 12:20	EPA 3050B	1,6010C	MG
Zinc, Total	7600		mg/kg	250	25.	100	04/22/13 14:48	04/23/13 13:04	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-23

Date Collected: 04/19/13 09:40

Client ID: SB-16\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5000		mg/kg	8.6	1.7	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Antimony, Total	0.95	J	mg/kg	4.3	0.86	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Arsenic, Total	1.4		mg/kg	0.86	0.26	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Barium, Total	26		mg/kg	0.86	0.26	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Beryllium, Total	0.21	J	mg/kg	0.43	0.03	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.86	0.05	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Calcium, Total	7400		mg/kg	8.6	1.7	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Chromium, Total	7.5		mg/kg	0.86	0.17	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Cobalt, Total	3.5		mg/kg	1.7	0.43	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Copper, Total	10		mg/kg	0.86	0.43	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Iron, Total	9000		mg/kg	4.3	1.7	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Lead, Total	15		mg/kg	4.3	0.26	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Magnesium, Total	2100		mg/kg	8.6	3.4	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Manganese, Total	270		mg/kg	0.86	0.17	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Mercury, Total	0.04	J	mg/kg	0.09	0.02	1	04/24/13 13:40	04/24/13 17:14	EPA 7471B	1,7471B	TT
Nickel, Total	8.8		mg/kg	2.2	0.34	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Potassium, Total	460		mg/kg	220	69.	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.7	0.26	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.86	0.17	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Sodium, Total	280		mg/kg	170	69.	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.52	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Vanadium, Total	10		mg/kg	0.86	0.17	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG
Zinc, Total	30		mg/kg	4.3	0.43	2	04/22/13 14:48	04/23/13 12:22	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-24  
 Client ID: SB-16\_7-9-FIELD-DUP  
 Sample Location: 514 W. 27TH ST. NYC  
 Matrix: Soil  
 Percent Solids: 92%

Date Collected: 04/19/13 09:40  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8500		mg/kg	8.3	1.6	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Antimony, Total	1.2	J	mg/kg	4.1	0.83	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Arsenic, Total	2.3		mg/kg	0.83	0.25	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Barium, Total	35		mg/kg	0.83	0.25	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Beryllium, Total	0.34	J	mg/kg	0.41	0.03	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.83	0.05	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Calcium, Total	2200		mg/kg	8.3	1.6	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Chromium, Total	11		mg/kg	0.83	0.16	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Cobalt, Total	5.4		mg/kg	1.6	0.41	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Copper, Total	14		mg/kg	0.83	0.41	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Iron, Total	14000		mg/kg	4.1	1.6	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Lead, Total	14		mg/kg	4.1	0.25	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Magnesium, Total	2800		mg/kg	8.3	3.3	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Manganese, Total	290		mg/kg	0.83	0.16	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Mercury, Total	0.11		mg/kg	0.09	0.02	1	04/24/13 13:40	04/24/13 17:16	EPA 7471B	1,7471B	TT
Nickel, Total	12		mg/kg	2.1	0.33	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Potassium, Total	540		mg/kg	210	66.	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Selenium, Total	0.66	J	mg/kg	1.6	0.25	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.83	0.16	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Sodium, Total	370		mg/kg	160	66.	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.6	0.50	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Vanadium, Total	13		mg/kg	0.83	0.16	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG
Zinc, Total	33		mg/kg	4.1	0.41	2	04/22/13 14:48	04/23/13 12:44	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-25

Date Collected: 04/19/13 10:10

Client ID: SB-24\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3300		mg/kg	8.9	1.8	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.4	0.89	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Arsenic, Total	4.4		mg/kg	0.89	0.27	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Barium, Total	520		mg/kg	0.89	0.27	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Beryllium, Total	0.14	J	mg/kg	0.44	0.04	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Cadmium, Total	1.3		mg/kg	0.89	0.05	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Calcium, Total	89000		mg/kg	440	89.	100	04/22/13 14:48	04/23/13 13:55	EPA 3050B	1,6010C	MG
Chromium, Total	7.8		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Cobalt, Total	2.6		mg/kg	1.8	0.44	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Copper, Total	15		mg/kg	0.89	0.44	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Iron, Total	6400		mg/kg	4.4	1.8	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Lead, Total	1200		mg/kg	4.4	0.27	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Magnesium, Total	2500		mg/kg	8.9	3.6	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Manganese, Total	200		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Mercury, Total	0.45		mg/kg	0.10	0.02	1	04/24/13 13:40	04/24/13 17:18	EPA 7471B	1,7471B	TT
Nickel, Total	7.3		mg/kg	2.2	0.36	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Potassium, Total	840		mg/kg	220	71.	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Selenium, Total	0.44	J	mg/kg	1.8	0.27	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Silver, Total	0.26	J	mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Sodium, Total	740		mg/kg	180	71.	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.53	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Vanadium, Total	8.4		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 12:47	EPA 3050B	1,6010C	MG
Zinc, Total	1400		mg/kg	220	22.	100	04/22/13 14:48	04/23/13 13:55	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-26

Date Collected: 04/19/13 10:20

Client ID: SB-24\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3000		mg/kg	9.4	1.9	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Antimony, Total	6.9		mg/kg	4.7	0.94	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Arsenic, Total	13		mg/kg	0.94	0.28	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Barium, Total	850		mg/kg	0.94	0.28	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Beryllium, Total	0.21	J	mg/kg	0.47	0.04	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Cadmium, Total	5.1		mg/kg	0.94	0.06	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Calcium, Total	81000		mg/kg	470	94.	100	04/22/13 14:48	04/23/13 13:58	EPA 3050B	1,6010C	MG
Chromium, Total	48		mg/kg	0.94	0.19	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Cobalt, Total	5.3		mg/kg	1.9	0.47	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Copper, Total	77		mg/kg	0.94	0.47	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Iron, Total	7600		mg/kg	4.7	1.9	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Lead, Total	2600		mg/kg	4.7	0.28	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Magnesium, Total	3200		mg/kg	9.4	3.8	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Manganese, Total	250		mg/kg	0.94	0.19	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Mercury, Total	0.37		mg/kg	0.10	0.02	1	04/24/13 13:40	04/24/13 17:20	EPA 7471B	1,7471B	TT
Nickel, Total	12		mg/kg	2.3	0.38	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Potassium, Total	690		mg/kg	230	75.	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Selenium, Total	0.66	J	mg/kg	1.9	0.28	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Silver, Total	1.1		mg/kg	0.94	0.19	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Sodium, Total	1600		mg/kg	190	75.	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.9	0.56	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Vanadium, Total	13		mg/kg	0.94	0.19	2	04/22/13 14:48	04/23/13 12:49	EPA 3050B	1,6010C	MG
Zinc, Total	5300		mg/kg	230	23.	100	04/22/13 14:48	04/23/13 13:58	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-27

Date Collected: 04/19/13 10:40

Client ID: SB-23\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5900		mg/kg	9.3	1.8	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Antimony, Total	1.3	J	mg/kg	4.6	0.93	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Arsenic, Total	2.9		mg/kg	0.93	0.28	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Barium, Total	71		mg/kg	0.93	0.28	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Beryllium, Total	0.41	J	mg/kg	0.46	0.04	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Cadmium, Total	0.23	J	mg/kg	0.93	0.06	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Calcium, Total	15000		mg/kg	9.3	1.8	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Chromium, Total	14		mg/kg	0.93	0.18	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Cobalt, Total	4.2		mg/kg	1.8	0.46	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Copper, Total	20		mg/kg	0.93	0.46	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Iron, Total	11000		mg/kg	4.6	1.8	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Lead, Total	65		mg/kg	4.6	0.28	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Magnesium, Total	2500		mg/kg	9.3	3.7	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Manganese, Total	300		mg/kg	0.93	0.18	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Mercury, Total	6.1		mg/kg	0.46	0.10	5	04/24/13 13:40	04/24/13 17:35	EPA 7471B	1,7471B	TT
Nickel, Total	25		mg/kg	2.3	0.37	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Potassium, Total	1100		mg/kg	230	74.	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Selenium, Total	0.88	J	mg/kg	1.8	0.28	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.93	0.18	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Sodium, Total	220		mg/kg	180	74.	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.56	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Vanadium, Total	17		mg/kg	0.93	0.18	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG
Zinc, Total	58		mg/kg	4.6	0.46	2	04/22/13 14:48	04/23/13 12:02	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-28

Date Collected: 04/19/13 10:55

Client ID: SB-23\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5400		mg/kg	9.2	1.8	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Antimony, Total	0.96	J	mg/kg	4.6	0.92	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Arsenic, Total	2.0		mg/kg	0.92	0.28	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Barium, Total	59		mg/kg	0.92	0.28	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Beryllium, Total	0.36	J	mg/kg	0.46	0.04	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.92	0.06	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Calcium, Total	2500		mg/kg	9.2	1.8	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Chromium, Total	13		mg/kg	0.92	0.18	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Cobalt, Total	5.0		mg/kg	1.8	0.46	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Copper, Total	14		mg/kg	0.92	0.46	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Iron, Total	11000		mg/kg	4.6	1.8	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Lead, Total	37		mg/kg	4.6	0.28	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Magnesium, Total	2000		mg/kg	9.2	3.7	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Manganese, Total	260		mg/kg	0.92	0.18	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	04/24/13 13:40	04/24/13 17:28	EPA 7471B	1,7471B	TT
Nickel, Total	14		mg/kg	2.3	0.37	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Potassium, Total	1100		mg/kg	230	73.	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Selenium, Total	0.60	J	mg/kg	1.8	0.28	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.92	0.18	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Sodium, Total	180		mg/kg	180	73.	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.55	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Vanadium, Total	16		mg/kg	0.92	0.18	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG
Zinc, Total	50		mg/kg	4.6	0.46	2	04/22/13 14:48	04/23/13 12:52	EPA 3050B	1,6010C	MG





Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-29

Date Collected: 04/19/13 11:10

Client ID: SB-17\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3700		mg/kg	8.4	1.7	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Antimony, Total	2.8	J	mg/kg	4.2	0.84	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Arsenic, Total	6.0		mg/kg	0.84	0.25	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Barium, Total	970		mg/kg	0.84	0.25	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Beryllium, Total	0.16	J	mg/kg	0.42	0.03	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Cadmium, Total	1.6		mg/kg	0.84	0.05	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Calcium, Total	39000		mg/kg	8.4	1.7	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Chromium, Total	22		mg/kg	0.84	0.17	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Cobalt, Total	11		mg/kg	1.7	0.42	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Copper, Total	58		mg/kg	0.84	0.42	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Iron, Total	8600		mg/kg	4.2	1.7	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Lead, Total	960		mg/kg	4.2	0.25	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Magnesium, Total	11000		mg/kg	8.4	3.4	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Manganese, Total	230		mg/kg	0.84	0.17	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Mercury, Total	0.29		mg/kg	0.08	0.02	1	04/24/13 13:40	04/24/13 17:33	EPA 7471B	1,7471B	TT
Nickel, Total	15		mg/kg	2.1	0.34	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Potassium, Total	540		mg/kg	210	68.	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Selenium, Total	0.47	J	mg/kg	1.7	0.25	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Silver, Total	0.60	J	mg/kg	0.84	0.17	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Sodium, Total	550		mg/kg	170	68.	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.51	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Vanadium, Total	17		mg/kg	0.84	0.17	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG
Zinc, Total	840		mg/kg	4.2	0.42	2	04/22/13 14:48	04/23/13 12:54	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-30

Date Collected: 04/19/13 11:20

Client ID: SB-17\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3800		mg/kg	9.6	1.9	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Antimony, Total	5.0		mg/kg	4.8	0.96	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Arsenic, Total	9.0		mg/kg	0.96	0.29	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Barium, Total	1200		mg/kg	0.96	0.29	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Beryllium, Total	0.25	J	mg/kg	0.48	0.04	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Cadmium, Total	2.5		mg/kg	0.96	0.06	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Calcium, Total	27000		mg/kg	9.6	1.9	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Chromium, Total	23		mg/kg	0.96	0.19	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Cobalt, Total	4.9		mg/kg	1.9	0.48	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Copper, Total	81		mg/kg	0.96	0.48	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Iron, Total	32000		mg/kg	4.8	1.9	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Lead, Total	1200		mg/kg	4.8	0.29	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Magnesium, Total	1700		mg/kg	9.6	3.8	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Manganese, Total	300		mg/kg	0.96	0.19	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Mercury, Total	1.5		mg/kg	0.09	0.02	1	04/24/13 13:40	04/24/13 17:43	EPA 7471B	1,7471B	TT
Nickel, Total	19		mg/kg	2.4	0.38	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Potassium, Total	610		mg/kg	240	77.	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Selenium, Total	1.4	J	mg/kg	1.9	0.29	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Silver, Total	1.4		mg/kg	0.96	0.19	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Sodium, Total	740		mg/kg	190	77.	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Thallium, Total	0.63	J	mg/kg	1.9	0.58	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Vanadium, Total	20		mg/kg	0.96	0.19	2	04/22/13 14:48	04/23/13 12:57	EPA 3050B	1,6010C	MG
Zinc, Total	1200		mg/kg	240	24.	100	04/22/13 14:48	04/23/13 14:00	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-31

Date Collected: 04/19/13 11:40

Client ID: SB-11\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8700		mg/kg	8.9	1.8	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Antimony, Total	25		mg/kg	4.5	0.89	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Arsenic, Total	28		mg/kg	0.89	0.27	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Barium, Total	330		mg/kg	0.89	0.27	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Beryllium, Total	0.35	J	mg/kg	0.45	0.04	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Cadmium, Total	13		mg/kg	0.89	0.05	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Calcium, Total	41000		mg/kg	8.9	1.8	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Chromium, Total	380		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Cobalt, Total	14		mg/kg	1.8	0.45	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Copper, Total	1700		mg/kg	0.89	0.45	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Iron, Total	75000		mg/kg	4.5	1.8	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Lead, Total	3000		mg/kg	4.5	0.27	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Magnesium, Total	6900		mg/kg	8.9	3.6	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Manganese, Total	600		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Mercury, Total	8.1		mg/kg	0.89	0.19	10	04/24/13 13:40	04/24/13 18:05	EPA 7471B	1,7471B	TT
Nickel, Total	120		mg/kg	2.2	0.36	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Potassium, Total	1600		mg/kg	220	72.	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Selenium, Total	2.1		mg/kg	1.8	0.27	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Silver, Total	8.4		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Sodium, Total	3400		mg/kg	180	72.	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.54	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Vanadium, Total	88		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 12:59	EPA 3050B	1,6010C	MG
Zinc, Total	8300		mg/kg	220	22.	100	04/22/13 14:48	04/23/13 14:03	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-32

Date Collected: 04/19/13 11:50

Client ID: SB-11\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7700		mg/kg	8.7	1.7	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Antimony, Total	1.0	J	mg/kg	4.3	0.87	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Arsenic, Total	1.8		mg/kg	0.87	0.26	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Barium, Total	40		mg/kg	0.87	0.26	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Beryllium, Total	0.37	J	mg/kg	0.43	0.04	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.87	0.05	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Calcium, Total	1000		mg/kg	8.7	1.7	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Chromium, Total	17		mg/kg	0.87	0.17	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Cobalt, Total	5.3		mg/kg	1.7	0.43	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Copper, Total	20		mg/kg	0.87	0.43	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Iron, Total	12000		mg/kg	4.3	1.7	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Lead, Total	16		mg/kg	4.3	0.26	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Magnesium, Total	2500		mg/kg	8.7	3.5	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Manganese, Total	430		mg/kg	0.87	0.17	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	04/24/13 13:40	04/24/13 17:47	EPA 7471B	1,7471B	TT
Nickel, Total	13		mg/kg	2.2	0.35	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Potassium, Total	980		mg/kg	220	70.	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Selenium, Total	0.66	J	mg/kg	1.7	0.26	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.87	0.17	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Sodium, Total	440		mg/kg	170	70.	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.52	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Vanadium, Total	18		mg/kg	0.87	0.17	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG
Zinc, Total	53		mg/kg	4.3	0.43	2	04/22/13 14:48	04/23/13 13:02	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-33

Date Collected: 04/19/13 12:10

Client ID: SB-7\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6300		mg/kg	9.7	1.9	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Antimony, Total	18		mg/kg	4.9	0.97	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Arsenic, Total	10		mg/kg	0.97	0.29	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Barium, Total	630		mg/kg	0.97	0.29	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Beryllium, Total	0.49		mg/kg	0.49	0.04	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Cadmium, Total	9.4		mg/kg	0.97	0.06	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Calcium, Total	35000		mg/kg	9.7	1.9	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Chromium, Total	72		mg/kg	0.97	0.19	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Cobalt, Total	8.6		mg/kg	1.9	0.49	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Copper, Total	560		mg/kg	0.97	0.49	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Iron, Total	40000		mg/kg	4.9	1.9	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Lead, Total	1100		mg/kg	4.9	0.29	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Magnesium, Total	7100		mg/kg	9.7	3.9	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Manganese, Total	430		mg/kg	0.97	0.19	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Mercury, Total	5.8		mg/kg	0.82	0.17	10	04/24/13 13:40	04/24/13 18:03	EPA 7471B	1,7471B	TT
Nickel, Total	52		mg/kg	2.4	0.39	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Potassium, Total	780		mg/kg	240	78.	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Selenium, Total	1.8	J	mg/kg	1.9	0.29	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Silver, Total	7.1		mg/kg	0.97	0.19	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Sodium, Total	1000		mg/kg	190	78.	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.9	0.58	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Vanadium, Total	36		mg/kg	0.97	0.19	2	04/22/13 14:48	04/23/13 13:42	EPA 3050B	1,6010C	MG
Zinc, Total	1600		mg/kg	240	24.	100	04/22/13 14:48	04/23/13 14:05	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-34

Date Collected: 04/19/13 12:20

Client ID: SB-7\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6000		mg/kg	9.4	1.9	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Antimony, Total	18		mg/kg	4.7	0.94	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Arsenic, Total	9.1		mg/kg	0.94	0.28	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Barium, Total	530		mg/kg	0.94	0.28	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Beryllium, Total	0.43	J	mg/kg	0.47	0.04	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Cadmium, Total	9.2		mg/kg	0.94	0.06	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Calcium, Total	34000		mg/kg	9.4	1.9	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Chromium, Total	78		mg/kg	0.94	0.19	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Cobalt, Total	9.1		mg/kg	1.9	0.47	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Copper, Total	550		mg/kg	0.94	0.47	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Iron, Total	41000		mg/kg	4.7	1.9	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Lead, Total	1000		mg/kg	4.7	0.28	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Magnesium, Total	6300		mg/kg	9.4	3.8	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Manganese, Total	440		mg/kg	0.94	0.19	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Mercury, Total	4.1		mg/kg	0.38	0.08	5	04/24/13 13:40	04/24/13 18:01	EPA 7471B	1,7471B	TT
Nickel, Total	50		mg/kg	2.4	0.38	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Potassium, Total	700		mg/kg	240	76.	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Selenium, Total	1.8	J	mg/kg	1.9	0.28	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Silver, Total	9.2		mg/kg	0.94	0.19	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Sodium, Total	880		mg/kg	190	76.	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.9	0.57	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Vanadium, Total	33		mg/kg	0.94	0.19	2	04/22/13 14:48	04/23/13 13:44	EPA 3050B	1,6010C	MG
Zinc, Total	1300		mg/kg	240	24.	100	04/22/13 14:48	04/23/13 14:08	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-35  
 Client ID: FIELD BLANK  
 Sample Location: 514 W. 27TH ST. NYC  
 Matrix: Water

Date Collected: 04/19/13 00:00  
 Date Received: 04/19/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Antimony, Total	0.00029	J	mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Barium, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00050	0.00005	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.0320	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Chromium, Total	0.00026	J	mg/l	0.00100	0.00020	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Copper, Total	ND		mg/l	0.00100	0.00010	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Iron, Total	ND		mg/l	0.0500	0.0130	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.00100	0.00020	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.0230	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Manganese, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Mercury, Total	0.00007	J	mg/l	0.00020	0.00006	1	04/22/13 14:58	04/23/13 15:21	EPA 7470A	1,7470A	TT
Nickel, Total	0.00014	J	mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.0270	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.00500	0.00030	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Sodium, Total	ND		mg/l	0.100	0.0150	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK
Zinc, Total	ND		mg/l	0.01000	0.00120	1	04/22/13 10:05	04/23/13 10:06	EPA 3005A	1,6020A	AK



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-37

Date Collected: 04/18/13 17:25

Client ID: SB-26\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	10000		mg/kg	8.8	1.8	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Antimony, Total	17		mg/kg	4.4	0.88	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Arsenic, Total	9.6		mg/kg	0.88	0.26	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Barium, Total	430		mg/kg	0.88	0.26	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Beryllium, Total	0.27	J	mg/kg	0.44	0.04	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Cadmium, Total	9.3		mg/kg	0.88	0.05	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Calcium, Total	59000		mg/kg	440	88.	100	04/22/13 14:48	04/23/13 14:15	EPA 3050B	1,6010C	MG
Chromium, Total	79		mg/kg	0.88	0.18	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Cobalt, Total	10		mg/kg	1.8	0.44	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Copper, Total	540		mg/kg	0.88	0.44	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Iron, Total	66000		mg/kg	4.4	1.8	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Lead, Total	2200		mg/kg	4.4	0.26	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Magnesium, Total	4600		mg/kg	8.8	3.5	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Manganese, Total	610		mg/kg	0.88	0.18	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Mercury, Total	4.8		mg/kg	0.46	0.10	5	04/24/13 13:40	04/24/13 18:11	EPA 7471B	1,7471B	TT
Nickel, Total	48		mg/kg	2.2	0.35	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Potassium, Total	1200		mg/kg	220	71.	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Selenium, Total	2.0		mg/kg	1.8	0.26	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Silver, Total	4.4		mg/kg	0.88	0.18	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Sodium, Total	1500		mg/kg	180	71.	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.53	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Vanadium, Total	31		mg/kg	0.88	0.18	2	04/22/13 14:48	04/23/13 13:47	EPA 3050B	1,6010C	MG
Zinc, Total	2300		mg/kg	220	22.	100	04/22/13 14:48	04/23/13 14:15	EPA 3050B	1,6010C	MG





Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-38

Date Collected: 04/18/13 17:35

Client ID: SB-26\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9600		mg/kg	8.9	1.8	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Antimony, Total	1.6	J	mg/kg	4.4	0.89	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Arsenic, Total	4.1		mg/kg	0.89	0.26	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Barium, Total	64		mg/kg	0.89	0.26	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Beryllium, Total	0.33	J	mg/kg	0.44	0.04	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.89	0.05	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Calcium, Total	20000		mg/kg	8.9	1.8	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Chromium, Total	13		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Cobalt, Total	6.2		mg/kg	1.8	0.44	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Copper, Total	20		mg/kg	0.89	0.44	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Iron, Total	14000		mg/kg	4.4	1.8	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Lead, Total	91		mg/kg	4.4	0.26	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Magnesium, Total	8100		mg/kg	8.9	3.5	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Manganese, Total	480		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Mercury, Total	0.38		mg/kg	0.08	0.02	1	04/24/13 13:40	04/24/13 18:09	EPA 7471B	1,7471B	TT
Nickel, Total	14		mg/kg	2.2	0.35	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Potassium, Total	1900		mg/kg	220	71.	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Selenium, Total	0.98	J	mg/kg	1.8	0.26	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Silver, Total	0.46	J	mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Sodium, Total	530		mg/kg	180	71.	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.53	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Vanadium, Total	17		mg/kg	0.89	0.18	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG
Zinc, Total	48		mg/kg	4.4	0.44	2	04/22/13 14:48	04/23/13 13:49	EPA 3050B	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 35 Batch: WG603035-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Antimony, Total	0.00045	J	mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Barium, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00050	0.00005	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.0320	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Chromium, Total	ND		mg/l	0.00100	0.00020	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Copper, Total	ND		mg/l	0.00100	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Iron, Total	ND		mg/l	0.0500	0.0130	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Lead, Total	ND		mg/l	0.00100	0.00020	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.0230	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Manganese, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Nickel, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Potassium, Total	0.0296	J	mg/l	0.100	0.0270	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Selenium, Total	ND		mg/l	0.00500	0.00030	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Sodium, Total	ND		mg/l	0.100	0.0150	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Thallium, Total	0.00006	J	mg/l	0.00050	0.00003	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK
Zinc, Total	ND		mg/l	0.01000	0.00120	1	04/22/13 10:05	04/23/13 09:59	1,6020A	AK

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 35 Batch: WG603081-1										
Mercury, Total	0.00007	J	mg/l	0.00020	0.00006	1	04/22/13 14:58	04/23/13 12:01	1,7470A	TT



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-16 Batch: WG603107-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	04/23/13 08:25	04/23/13 12:34	1,7471B	MC

### Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-20 Batch: WG603116-1									
Aluminum, Total	ND	mg/kg	4.0	0.80	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Antimony, Total	ND	mg/kg	2.0	0.40	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Arsenic, Total	ND	mg/kg	0.40	0.12	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Barium, Total	ND	mg/kg	0.40	0.12	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Beryllium, Total	ND	mg/kg	0.20	0.02	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Cadmium, Total	ND	mg/kg	0.40	0.02	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Calcium, Total	ND	mg/kg	4.0	0.80	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Chromium, Total	ND	mg/kg	0.40	0.08	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Cobalt, Total	ND	mg/kg	0.80	0.20	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Copper, Total	ND	mg/kg	0.40	0.20	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Iron, Total	0.88 J	mg/kg	2.0	0.80	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Lead, Total	ND	mg/kg	2.0	0.12	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Magnesium, Total	ND	mg/kg	4.0	1.6	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Manganese, Total	ND	mg/kg	0.40	0.08	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Nickel, Total	ND	mg/kg	1.0	0.16	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Potassium, Total	ND	mg/kg	100	32.	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Selenium, Total	ND	mg/kg	0.80	0.12	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Silver, Total	ND	mg/kg	0.40	0.08	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Sodium, Total	ND	mg/kg	80	32.	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Thallium, Total	ND	mg/kg	0.80	0.24	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
Vanadium, Total	ND	mg/kg	0.40	0.08	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## Method Blank Analysis Batch Quality Control

Zinc, Total	ND	mg/kg	2.0	0.20	1	04/22/13 13:36	04/23/13 09:20	1,6010C	MG
-------------	----	-------	-----	------	---	----------------	----------------	---------	----

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 21-34,37-38 Batch: WG603155-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Antimony, Total	ND		mg/kg	2.0	0.40	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Arsenic, Total	ND		mg/kg	0.40	0.12	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Barium, Total	ND		mg/kg	0.40	0.12	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Beryllium, Total	ND		mg/kg	0.20	0.02	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.40	0.02	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Calcium, Total	ND		mg/kg	4.0	0.80	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Chromium, Total	ND		mg/kg	0.40	0.08	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Cobalt, Total	ND		mg/kg	0.80	0.20	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Copper, Total	ND		mg/kg	0.40	0.20	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Iron, Total	0.86	J	mg/kg	2.0	0.80	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Lead, Total	ND		mg/kg	2.0	0.12	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Magnesium, Total	ND		mg/kg	4.0	1.6	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Manganese, Total	ND		mg/kg	0.40	0.08	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Nickel, Total	ND		mg/kg	1.0	0.16	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Potassium, Total	ND		mg/kg	100	32.	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Selenium, Total	ND		mg/kg	0.80	0.12	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Silver, Total	ND		mg/kg	0.40	0.08	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Sodium, Total	ND		mg/kg	80	32.	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Thallium, Total	ND		mg/kg	0.80	0.24	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Vanadium, Total	ND		mg/kg	0.40	0.08	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG
Zinc, Total	0.21	J	mg/kg	2.0	0.20	1	04/22/13 14:48	04/23/13 11:56	1,6010C	MG

### Prep Information

Digestion Method: EPA 3050B



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 17-34,37-38 Batch: WG603566-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	04/24/13 13:40	04/24/13 16:43	1,7471B	TT

### Prep Information

Digestion Method: EPA 7471B

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 35 Batch: WG603035-2								
Aluminum, Total	104		-		80-120	-		
Antimony, Total	87		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	91		-		80-120	-		
Beryllium, Total	102		-		80-120	-		
Cadmium, Total	100		-		80-120	-		
Calcium, Total	96		-		80-120	-		
Chromium, Total	94		-		80-120	-		
Cobalt, Total	96		-		80-120	-		
Copper, Total	99		-		80-120	-		
Iron, Total	95		-		80-120	-		
Lead, Total	96		-		80-120	-		
Magnesium, Total	98		-		80-120	-		
Manganese, Total	94		-		80-120	-		
Nickel, Total	96		-		80-120	-		
Potassium, Total	101		-		80-120	-		
Selenium, Total	102		-		80-120	-		
Silver, Total	91		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	94		-		80-120	-		
Vanadium, Total	99		-		80-120	-		

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 35 Batch: WG603035-2					
Zinc, Total	104	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 35 Batch: WG603081-2					
Mercury, Total	107	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-16 Batch: WG603107-2 SRM Lot Number: 0518-10-02					
Mercury, Total	95	-	67-133	-	

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 Batch: WG603116-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	101	-	29-171	-	
Antimony, Total	122	-	4-196	-	
Arsenic, Total	104	-	81-119	-	
Barium, Total	104	-	83-118	-	
Beryllium, Total	104	-	83-117	-	
Cadmium, Total	98	-	82-117	-	
Calcium, Total	87	-	83-117	-	
Chromium, Total	101	-	80-119	-	
Cobalt, Total	103	-	83-117	-	
Copper, Total	109	-	83-117	-	
Iron, Total	101	-	51-150	-	
Lead, Total	94	-	80-120	-	
Magnesium, Total	97	-	74-126	-	
Manganese, Total	100	-	83-117	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	99	-	74-126	-	
Selenium, Total	106	-	80-120	-	
Silver, Total	102	-	66-134	-	
Sodium, Total	114	-	74-127	-	
Thallium, Total	96	-	79-120	-	
Vanadium, Total	106	-	79-121	-	



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 Batch: WG603116-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 21-34,37-38 Batch: WG603155-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	104	-	29-171	-	
Antimony, Total	122	-	4-196	-	
Arsenic, Total	100	-	81-119	-	
Barium, Total	108	-	83-118	-	
Beryllium, Total	110	-	83-117	-	
Cadmium, Total	98	-	82-117	-	
Calcium, Total	90	-	83-117	-	
Chromium, Total	101	-	80-119	-	
Cobalt, Total	101	-	83-117	-	
Copper, Total	101	-	83-117	-	
Iron, Total	94	-	51-150	-	
Lead, Total	93	-	80-120	-	
Magnesium, Total	97	-	74-126	-	
Manganese, Total	95	-	83-117	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	99	-	74-126	-	
Selenium, Total	106	-	80-120	-	
Silver, Total	104	-	66-134	-	
Sodium, Total	117	-	74-127	-	
Thallium, Total	96	-	79-120	-	
Vanadium, Total	98	-	79-121	-	

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 21-34,37-38 Batch: WG603155-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	
Total Metals - Westborough Lab Associated sample(s): 17-34,37-38 Batch: WG603566-2 SRM Lot Number: 0518-10-02					
Mercury, Total	102	-	67-133	-	

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Lab Number:** L1307016

**Project Number:** E040

**Report Date:** 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 35 QC Batch ID: WG603035-4 QC Sample: L1307031-02 Client ID: MS Sample												
Aluminum, Total	0.003J	2	2.11	106		-	-		80-120	-		20
Antimony, Total	0.0010	0.5	0.4984	99		-	-		80-120	-		20
Arsenic, Total	0.0026	0.12	0.1373	112		-	-		80-120	-		20
Barium, Total	0.2817	2	2.179	95		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.05040	101		-	-		80-120	-		20
Cadmium, Total	ND	0.51	0.5363	105		-	-		80-120	-		20
Calcium, Total	69.5	10	79.0	95		-	-		80-120	-		20
Chromium, Total	0.0010	0.2	0.1932	96		-	-		80-120	-		20
Cobalt, Total	0.0010	0.5	0.4939	98		-	-		80-120	-		20
Copper, Total	0.0006J	0.25	0.2566	103		-	-		80-120	-		20
Iron, Total	6.48	1	7.30	82		-	-		80-120	-		20
Lead, Total	ND	0.51	0.5145	101		-	-		80-120	-		20
Magnesium, Total	25.0	10	35.7	107		-	-		80-120	-		20
Manganese, Total	0.3016	0.5	0.7635	92		-	-		80-120	-		20
Nickel, Total	0.0013	0.5	0.4987	99		-	-		80-120	-		20
Potassium, Total	11.9	10	22.1	102		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.128	107		-	-		80-120	-		20
Silver, Total	ND	0.05	0.04820	96		-	-		80-120	-		20
Sodium, Total	122.	10	135	130	Q	-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1156	96		-	-		80-120	-		20
Vanadium, Total	0.0006J	0.5	0.4999	100		-	-		80-120	-		20

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 35 QC Batch ID: WG603035-4 QC Sample: L1307031-02 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5268	105	-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 35 QC Batch ID: WG603081-4 QC Sample: L1306181-01 Client ID: MS Sample									
Mercury, Total	0.00007J	0.001	0.00072	73	-	-	70-130	-	20
Total Metals - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG603107-4 QC Sample: L1306501-01 Client ID: MS Sample									
Mercury, Total	0.34	0.421	0.50	38	Q	-	70-130	-	35

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG603116-3 WG603116-4 QC Sample: L1307016-17 Client ID: SB-27_7-9											
Aluminum, Total	7200	171	6400	0	Q	7900	401	Q	75-125	21	35
Antimony, Total	1.3J	42.8	38	89		37	85		75-125	3	35
Arsenic, Total	3.9	10.3	14	98		14	96		75-125	0	35
Barium, Total	62.	171	220	92		230	96		75-125	4	35
Beryllium, Total	0.45	4.28	4.7	99		4.8	100		75-125	2	35
Cadmium, Total	0.06J	43.7	39	89		39	88		75-125	0	35
Calcium, Total	15000	856	14000	0	Q	14000	0	Q	75-125	0	35
Chromium, Total	12.	17.1	26	82		28	92		75-125	7	35
Cobalt, Total	4.5	42.8	45	94		46	95		75-125	2	35
Copper, Total	15.	21.4	36	98		37	101		75-125	3	35
Iron, Total	11000	85.6	9000	0	Q	11000	0	Q	75-125	20	35
Lead, Total	30.	43.7	70	92		68	85		75-125	3	35
Magnesium, Total	4000	856	4600	70	Q	4900	103		75-125	6	35
Manganese, Total	380	42.8	350	0	Q	420	92		75-125	18	35
Nickel, Total	11.	42.8	48	86		52	94		75-125	8	35
Potassium, Total	1200	856	2000	93		2200	115		75-125	10	35
Selenium, Total	0.56J	10.3	10	97		11	105		75-125	10	35
Silver, Total	ND	25.7	28	109		28	107		75-125	0	35
Sodium, Total	420	856	1400	114		1500	124		75-125	7	35
Thallium, Total	0.63J	10.3	10	97		10	96		75-125	0	35
Vanadium, Total	16.	42.8	55	91		58	96		75-125	5	35

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG603116-3 WG603116-4 QC Sample: L1307016-17 Client ID: SB-27_7-9									
Zinc, Total	37.	42.8	70	77	71	78	75-125	1	35

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 21-34,37-38 QC Batch ID: WG603155-3 WG603155-4 QC Sample: L1307016-27 Client ID: SB-23_0-2											
Aluminum, Total	5900	188	7300	743	Q	6900	530	Q	75-125	6	35
Antimony, Total	1.3J	47.1	44	93		46	98		75-125	4	35
Arsenic, Total	2.9	11.3	14	98		15	107		75-125	7	35
Barium, Total	71.	188	260	100		260	100		75-125	0	35
Beryllium, Total	0.41J	4.71	5.1	108		5.2	110		75-125	2	35
Cadmium, Total	0.23J	48	42	87		44	91		75-125	5	35
Calcium, Total	15000	942	18000	318	Q	21000	636	Q	75-125	15	35
Chromium, Total	14.	18.8	33	101		35	111		75-125	6	35
Cobalt, Total	4.2	47.1	50	97		51	99		75-125	2	35
Copper, Total	20.	23.6	44	102		46	110		75-125	4	35
Iron, Total	11000	94.2	12000	1060	Q	12000	1060	Q	75-125	0	35
Lead, Total	65.	48	100	73	Q	110	94		75-125	10	35
Magnesium, Total	2500	942	3600	117		3900	148	Q	75-125	8	35
Manganese, Total	300	47.1	380	170	Q	380	170	Q	75-125	0	35
Nickel, Total	25.	47.1	69	93		78	112		75-125	12	35
Potassium, Total	1100	942	2400	138	Q	2300	127	Q	75-125	4	35
Selenium, Total	0.88J	11.3	12	106		12	106		75-125	0	35
Silver, Total	ND	28.3	30	106		32	113		75-125	6	35
Sodium, Total	220	942	1400	125		1500	136	Q	75-125	7	35
Thallium, Total	ND	11.3	11	97		12	106		75-125	9	35
Vanadium, Total	17.	47.1	66	104		66	104		75-125	0	35



# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Westborough Lab Associated sample(s): 21-34,37-38				QC Batch ID: WG603155-3		WG603155-4	QC Sample: L1307016-27	Client ID: SB-23_0-2			
Zinc, Total	58.	47.1	92	72	Q	91	70	Q	75-125	1	35
Total Metals - Westborough Lab Associated sample(s): 17-34,37-38				QC Batch ID: WG603566-4		WG603566-5	QC Sample: L1307016-17	Client ID: SB-27_7-9			
Mercury, Total	1.6	0.158	1.0	0	Q	1.4	0	Q	70-130	33	35
Total Metals - Westborough Lab Associated sample(s): 17-34,37-38				QC Batch ID: WG603566-6		WG603566-7	QC Sample: L1307016-27	Client ID: SB-23_0-2			
Mercury, Total	6.1	0.183	2.1	0	Q	4.6	0	Q	70-130	75	Q 35

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 35 QC Batch ID: WG603035-3 QC Sample: L1307031-02 Client ID: DUP Sample						
Iron, Total	6.48	6.40	mg/l	1		20
Total Metals - Westborough Lab Associated sample(s): 35 QC Batch ID: WG603081-3 QC Sample: L1306181-01 Client ID: DUP Sample						
Mercury, Total	0.00007J	0.00007J	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG603107-3 QC Sample: L1306501-01 Client ID: DUP Sample						
Mercury, Total	0.34	0.40J	mg/kg	NC		35

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

**SAMPLE RESULTS**

**Lab ID:** L1307016-01  
**Client ID:** SB-12\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 15:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.1		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/22/13 10:25	04/23/13 13:31	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.93	0.21	1	04/22/13 19:15	04/23/13 02:16	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-02  
**Client ID:** SB-12\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 15:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.0	0.25	1	04/22/13 10:25	04/23/13 13:32	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.90	0.20	1	04/22/13 19:15	04/23/13 02:17	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-03  
**Client ID:** SB-9\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 16:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.6		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	0.96	0.22	1	04/22/13 10:25	04/23/13 13:33	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.84	0.19	1	04/22/13 19:15	04/23/13 02:17	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-04  
**Client ID:** SB-9\_3-5  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 16:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.25	1	04/22/13 10:25	04/23/13 13:33	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.94	0.21	1	04/22/13 19:15	04/23/13 02:18	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-05

Client ID: SB-13\_1-3

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/18/13 16:30

Date Received: 04/19/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/22/13 10:25	04/23/13 13:34	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.94	0.21	1	04/22/13 19:15	04/23/13 02:19	1,7196A	JT





**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-06  
**Client ID:** SB-13\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 16:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.1		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/22/13 10:25	04/23/13 13:37	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.93	0.21	1	04/22/13 19:15	04/23/13 02:20	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-07  
**Client ID:** SB-18\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 16:45  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/22/13 10:25	04/23/13 13:37	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.94	0.21	1	04/22/13 19:15	04/23/13 02:22	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-08

Client ID: SB-18\_7-9

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/18/13 16:50

Date Received: 04/19/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/22/13 10:25	04/23/13 13:38	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.92	0.20	1	04/22/13 19:15	04/23/13 02:22	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

**SAMPLE RESULTS**

**Lab ID:** L1307016-09  
**Client ID:** SB-8\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 17:05  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.6		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.2	0.29	1	04/22/13 10:25	04/23/13 13:39	1,9010C/9012A	JO
Chromium, Hexavalent	0.47	J	mg/kg	1.0	0.23	1	04/22/13 19:15	04/23/13 02:24	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-10

Date Collected: 04/18/13 17:15

Client ID: SB-8\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.25	1	04/22/13 10:25	04/23/13 13:40	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.89	0.20	1	04/22/13 19:15	04/23/13 02:26	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-11

Client ID: SB-28\_1-3

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/18/13 08:40

Date Received: 04/19/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.4		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.2	0.29	1	04/22/13 10:25	04/23/13 13:42	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	1.1	0.24	1	04/22/13 19:15	04/23/13 02:26	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-12  
**Client ID:** SB-28\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 08:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	04/20/13 11:03	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/22/13 10:25	04/23/13 13:43	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.91	0.20	1	04/22/13 19:15	04/23/13 02:27	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-13  
**Client ID:** SB-25\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 09:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.25	1	04/22/13 10:25	04/23/13 13:44	1,9010C/9012A	JO
Chromium, Hexavalent	0.23	J	mg/kg	0.92	0.21	1	04/22/13 19:15	04/23/13 02:28	1,7196A	JT





Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-14

Client ID: SB-25\_7-9

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/18/13 09:30

Date Received: 04/19/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.2	0.27	1	04/22/13 10:25	04/23/13 13:46	1,9010C/9012A	JO
Chromium, Hexavalent	0.23	J	mg/kg	0.92	0.21	1	04/22/13 19:15	04/23/13 02:29	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-15

Client ID: SB-25\_7-9\_FIELD-DUP

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/18/13 09:30

Date Received: 04/19/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.0	0.24	1	04/22/13 10:25	04/23/13 13:47	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.91	0.20	1	04/22/13 19:15	04/23/13 02:30	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

**SAMPLE RESULTS**

**Lab ID:** L1307016-16  
**Client ID:** SB-27\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 14:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	7.3		mg/kg	1.1	0.26	1	04/22/13 17:10	04/23/13 14:10	1,9010C/9012A	JO
Chromium, Hexavalent	0.31	J	mg/kg	0.97	0.22	1	04/22/13 19:15	04/23/13 02:32	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

**SAMPLE RESULTS**

**Lab ID:** L1307016-17  
**Client ID:** SB-27\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 14:50  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/22/13 17:10	04/23/13 14:08	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.89	0.20	1	04/22/13 19:15	04/23/13 02:33	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

**SAMPLE RESULTS**

**Lab ID:** L1307016-18  
**Client ID:** SB-10\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 15:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/22/13 17:10	04/23/13 14:12	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.90	0.20	1	04/22/13 19:15	04/23/13 02:34	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-19  
**Client ID:** SB-10\_8-10  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 15:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.25	1	04/22/13 17:10	04/23/13 14:13	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.91	0.20	1	04/22/13 21:00	04/24/13 00:50	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-20

Date Collected: 04/19/13 08:50

Client ID: SB-15\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.7		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.0	0.24	1	04/22/13 17:10	04/23/13 14:14	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.86	0.19	1	04/22/13 21:00	04/24/13 00:51	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-21

Client ID: SB-15\_8-10

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/19/13 09:00

Date Received: 04/19/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/22/13 17:10	04/23/13 14:15	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.94	0.21	1	04/22/13 21:00	04/24/13 00:52	1,7196A	JT





Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-22

Client ID: SB-16\_1-3

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/19/13 09:30

Date Received: 04/19/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.0		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.2	0.29	1	04/22/13 17:10	04/23/13 14:15	1,9010C/9012A	JO
Chromium, Hexavalent	0.42	J	mg/kg	1.0	0.24	1	04/22/13 21:00	04/24/13 00:54	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-23

Client ID: SB-16\_7-9

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/19/13 09:40

Date Received: 04/19/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.25	1	04/22/13 17:10	04/23/13 14:16	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.91	0.20	1	04/22/13 21:00	04/24/13 00:56	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-24  
**Client ID:** SB-16\_7-9-FIELD-DUP  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/19/13 09:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.0	0.24	1	04/22/13 17:10	04/23/13 14:17	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.86	0.19	1	04/22/13 21:00	04/24/13 00:57	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-25

Date Collected: 04/19/13 10:10

Client ID: SB-24\_1-3

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.25	1	04/22/13 17:10	04/23/13 14:18	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.94	0.21	1	04/22/13 21:00	04/24/13 00:58	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-26

Date Collected: 04/19/13 10:20

Client ID: SB-24\_8-10

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.2	0.27	1	04/24/13 10:37	04/25/13 14:07	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.97	0.22	1	04/22/13 21:00	04/24/13 00:58	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-27  
**Client ID:** SB-23\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/19/13 10:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/24/13 10:37	04/25/13 14:07	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.98	0.22	1	04/22/13 21:00	04/24/13 00:59	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-28

Date Collected: 04/19/13 10:55

Client ID: SB-23\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.25	1	04/24/13 10:37	04/25/13 14:11	1,9010C/9012A	JO
Chromium, Hexavalent	0.23	J	mg/kg	0.94	0.21	1	04/22/13 21:00	04/24/13 01:01	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-29  
**Client ID:** SB-17\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/19/13 11:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	2.1	0.49	2	04/24/13 10:37	04/25/13 14:27	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.86	0.19	1	04/22/13 21:00	04/24/13 01:02	1,7196A	JT





Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-30

Client ID: SB-17\_7-9

Sample Location: 514 W. 27TH ST. NYC

Matrix: Soil

Date Collected: 04/19/13 11:20

Date Received: 04/19/13

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.6		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.2	0.28	1	04/24/13 10:37	04/25/13 14:13	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.98	0.22	1	04/22/13 21:00	04/24/13 01:03	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-31  
**Client ID:** SB-11\_1-3  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/19/13 11:40  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	5.4		mg/kg	1.1	0.26	1	04/24/13 10:37	04/25/13 14:13	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.95	0.21	1	04/22/13 21:00	04/24/13 01:03	1,7196A	JT



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-32

Date Collected: 04/19/13 11:50

Client ID: SB-11\_7-9

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	04/21/13 10:27	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.0	0.24	1	04/24/13 10:37	04/25/13 14:14	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.88	0.20	1	04/22/13 21:00	04/24/13 01:04	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

**SAMPLE RESULTS**

**Lab ID:** L1307016-33  
**Client ID:** SB-7\_0-2  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/19/13 12:10  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	04/21/13 10:44	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.2	0.28	1	04/24/13 10:37	04/25/13 14:15	1,9010C/9012A	JO
Chromium, Hexavalent	0.25	J	mg/kg	1.0	0.23	1	04/22/13 21:00	04/24/13 01:04	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

**SAMPLE RESULTS**

**Lab ID:** L1307016-34  
**Client ID:** SB-7\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/19/13 12:20  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.5		%	0.100	NA	1	-	04/21/13 10:44	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.2	0.27	1	04/24/13 10:37	04/25/13 14:16	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.96	0.22	1	04/22/13 21:00	04/24/13 01:05	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC**Project Number:** E040**Lab Number:** L1307016**Report Date:** 04/29/13**SAMPLE RESULTS****Lab ID:** L1307016-35**Client ID:** FIELD BLANK**Sample Location:** 514 W. 27TH ST. NYC**Matrix:** Water**Date Collected:** 04/19/13 00:00**Date Received:** 04/19/13**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	04/23/13 15:00	04/25/13 13:25	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	04/20/13 01:27	04/20/13 01:34	1,7196A	ML



Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

## SAMPLE RESULTS

Lab ID: L1307016-37

Date Collected: 04/18/13 17:25

Client ID: SB-26\_0-2

Date Received: 04/19/13

Sample Location: 514 W. 27TH ST. NYC

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	04/21/13 10:44	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.26	1	04/24/13 10:37	04/25/13 14:17	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.94	0.21	1	04/22/13 21:00	04/24/13 01:06	1,7196A	JT



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### SAMPLE RESULTS

**Lab ID:** L1307016-38  
**Client ID:** SB-26\_7-9  
**Sample Location:** 514 W. 27TH ST. NYC  
**Matrix:** Soil

**Date Collected:** 04/18/13 17:35  
**Date Received:** 04/19/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	04/21/13 10:44	30,2540G	TA
Cyanide, Total	ND		mg/kg	1.1	0.25	1	04/24/13 13:38	04/25/13 14:46	1,9010C/9012A	JO
Chromium, Hexavalent	ND		mg/kg	0.91	0.20	1	04/22/13 21:00	04/24/13 01:06	1,7196A	JT





Project Name: 514 W. 27TH ST. NYC

Lab Number: L1307016

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 35 Batch: WG602852-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	04/20/13 01:27	04/20/13 01:33	1,7196A	ML
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG603067-1										
Cyanide, Total	ND		mg/kg	0.94	0.22	1	04/22/13 10:25	04/23/13 13:20	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 06-15 Batch: WG603068-1										
Cyanide, Total	ND		mg/kg	0.94	0.22	1	04/22/13 10:25	04/23/13 13:20	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 16-25 Batch: WG603069-1										
Cyanide, Total	ND		mg/kg	0.87	0.20	1	04/22/13 17:10	04/23/13 13:54	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-18 Batch: WG603248-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.18	1	04/22/13 19:15	04/23/13 02:14	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 19-34,37-38 Batch: WG603249-1										
Chromium, Hexavalent	ND		mg/l	0.80	0.18	1	04/22/13 21:00	04/24/13 00:46	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 35 Batch: WG603453-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/23/13 15:00	04/25/13 13:19	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 26-34,37 Batch: WG603786-1										
Cyanide, Total	ND		mg/kg	0.88	0.21	1	04/24/13 10:37	04/25/13 13:52	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 38 Batch: WG603787-1										
Cyanide, Total	ND		mg/kg	0.94	0.22	1	04/24/13 13:38	04/25/13 14:41	1,9010C/9012A	JO

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 35 Batch: WG602852-2								
Chromium, Hexavalent	106		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG603067-4 WG603067-5								
Cyanide, Total	106		106		80-120	0		35
General Chemistry - Westborough Lab Associated sample(s): 06-15 Batch: WG603068-4 WG603068-5								
Cyanide, Total	105		105		80-120	0		35
General Chemistry - Westborough Lab Associated sample(s): 16-25 Batch: WG603069-4 WG603069-5								
Cyanide, Total	109		110		80-120	1		35
General Chemistry - Westborough Lab Associated sample(s): 01-18 Batch: WG603248-2								
Chromium, Hexavalent	103		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 19-34,37-38 Batch: WG603249-2								
Chromium, Hexavalent	102		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 35 Batch: WG603453-4 WG603453-5								
Cyanide, Total	98		105		80-120	7		20

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W. 27TH ST. NYC**Project Number:** E040**Lab Number:** L1307016**Report Date:** 04/29/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 26-34,37 Batch: WG603786-4 WG603786-5					
Cyanide, Total	112	113	80-120	1	35
General Chemistry - Westborough Lab Associated sample(s): 38 Batch: WG603787-4 WG603787-5					
Cyanide, Total	110	109	80-120	1	35

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 35 QC Batch ID: WG602852-4 QC Sample: L1307016-35 Client ID: FIELD BLANK												
Chromium, Hexavalent	ND	0.1	0.099	99		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG603067-3 WG603067-2 QC Sample: L1306810-02 Client ID: MS Sample												
Cyanide, Total	ND	20	21	100		21	100		65-135	0		35
General Chemistry - Westborough Lab Associated sample(s): 06-15 QC Batch ID: WG603068-3 WG603068-2 QC Sample: L1307016-10 Client ID: SB-8_8-10												
Cyanide, Total	ND	10	10	98		11	100		65-135	10		35
General Chemistry - Westborough Lab Associated sample(s): 16-25 QC Batch ID: WG603069-3 WG603069-2 QC Sample: L1307016-17 Client ID: SB-27_7-9												
Cyanide, Total	ND	10	12	120		12	110		65-135	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG603248-5 WG603248-6 QC Sample: L1307016-17 Client ID: SB-27_7-9												
Chromium, Hexavalent	ND	1190	1200	100		1000	89		75-125	18		20
General Chemistry - Westborough Lab Associated sample(s): 19-34,37-38 QC Batch ID: WG603249-5 WG603249-6 QC Sample: L1307016-27 Client ID: SB-23_0-2												
Chromium, Hexavalent	ND	1350	1300	96		1400	97		75-125	7		20
General Chemistry - Westborough Lab Associated sample(s): 35 QC Batch ID: WG603453-3 WG603453-2 QC Sample: L1307098-03 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.194	97		0.188	94		80-120	3		20
General Chemistry - Westborough Lab Associated sample(s): 26-34,37 QC Batch ID: WG603786-3 WG603786-2 QC Sample: L1307016-27 Client ID: SB-23_0-2												
Cyanide, Total	ND	12	12	100		12	100		65-135	0		35

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Lab Number:** L1307016

**Project Number:** E040

**Report Date:** 04/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 38 QC Batch ID: WG603787-3 WG603787-2 QC Sample: L1307025-01 Client ID: MS Sample									
Cyanide, Total	ND	11	12	100	12	100	65-135	0	35

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST. NYC

**Project Number:** E040

**Lab Number:** L1307016

**Report Date:** 04/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 35 QC Batch ID: WG602852-3 QC Sample: L1307016-35 Client ID: FIELD BLANK						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG602877-1 QC Sample: L1306972-01 Client ID: DUP Sample						
Solids, Total	84.3	84.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 13-32 QC Batch ID: WG602922-1 QC Sample: L1307016-13 Client ID: SB-25_1-3						
Solids, Total	86.8	86.8	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 33-34,37-38 QC Batch ID: WG602924-1 QC Sample: L1307016-33 Client ID: SB-7_0-2						
Solids, Total	79.0	75.4	%	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG603248-4 QC Sample: L1307016-17 Client ID: SB-27_7-9						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 19-34,37-38 QC Batch ID: WG603249-4 QC Sample: L1307016-27 Client ID: SB-23_0-2						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: 04/20/2013 04:20

## Cooler Information Custody Seal

## Cooler

A	Absent
D	Absent
B	Absent
C	Absent
E	Absent
F	Absent
G	Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-01A	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-01B	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-01C	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-01D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1307016-01E	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-01F	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-01X	Vial MeOH preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-01Y	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-01Z	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-02A	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-02B	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-02C	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-02D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1307016-02E	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-02F	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-02X	Vial MeOH preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-02Y	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-02Z	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-03A	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days





Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-03B	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-03C	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-03D	Plastic 2oz unpreserved for TS	G	N/A	3.6	Y	Absent	TS(7)
L1307016-03E	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-03F	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-03X	Vial MeOH preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-03Y	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-03Z	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-04A	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-04B	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-04C	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-04D	Plastic 2oz unpreserved for TS	G	N/A	3.6	Y	Absent	TS(7)
L1307016-04E	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-04F	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-04X	Vial MeOH preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-04Y	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-04Z	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-05A	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-05B	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-05C	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-05D	Plastic 2oz unpreserved for TS	C	N/A	2.8	Y	Absent	TS(7)
L1307016-05E	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-05F	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-05X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-05Y	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-05Z	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-06A	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-06B	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-06C	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-06D	Plastic 2oz unpreserved for TS	C	N/A	2.8	Y	Absent	TS(7)
L1307016-06E	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-06F	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-06X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-06Y	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-06Z	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-07A	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-07B	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-07C	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-07D	Plastic 2oz unpreserved for TS	B	N/A	4.3	Y	Absent	TS(7)
L1307016-07E	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-07F	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-07X	Vial MeOH preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-07Y	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-07Z	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-08A	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-08B	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-08C	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-08D	Plastic 2oz unpreserved for TS	B	N/A	4.3	Y	Absent	TS(7)
L1307016-08E	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-08F	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-08X	Vial MeOH preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-08Y	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-08Z	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-09A	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-09B	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-09C	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-09D	Plastic 2oz unpreserved for TS	D	N/A	4.5	Y	Absent	TS(7)
L1307016-09E	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-09F	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-09X	Vial MeOH preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-09Y	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-09Z	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-10A	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-10B	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-10C	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-10D	Plastic 2oz unpreserved for TS	D	N/A	4.5	Y	Absent	TS(7)
L1307016-10E	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-10F	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-10X	Vial MeOH preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-10Y	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-10Z	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-11A	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-11B	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-11C	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-11D	Plastic 2oz unpreserved for TS	C	N/A	2.8	Y	Absent	TS(7)
L1307016-11E	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-11F	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-11X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-11Y	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-11Z	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-12A	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-12B	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-12C	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-12D	Plastic 2oz unpreserved for TS	C	N/A	2.8	Y	Absent	TS(7)
L1307016-12E	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-12F	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-12X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-12Y	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-12Z	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-13A	5 gram Encore Sampler	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-13B	5 gram Encore Sampler	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-13C	5 gram Encore Sampler	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-13D	Plastic 2oz unpreserved for TS	E	N/A	2.3	Y	Absent	TS(7)
L1307016-13E	Amber 250ml unpreserved	E	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-13F	Amber 250ml unpreserved	E	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-13X	Vial MeOH preserved split	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-13Y	Vial Water preserved split	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-13Z	Vial Water preserved split	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-14A	5 gram Encore Sampler	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-14B	5 gram Encore Sampler	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-14C	5 gram Encore Sampler	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-14D	Plastic 2oz unpreserved for TS	E	N/A	2.3	Y	Absent	TS(7)
L1307016-14E	Amber 250ml unpreserved	E	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-14F	Amber 250ml unpreserved	E	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-14X	Vial MeOH preserved split	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-14Y	Vial Water preserved split	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-14Z	Vial Water preserved split	E	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-15A	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days





Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-15B	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-15C	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-15D	Plastic 2oz unpreserved for TS	D	N/A	4.5	Y	Absent	TS(7)
L1307016-15E	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-15F	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-15X	Vial MeOH preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-15Y	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-15Z	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-16A	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-16B	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-16C	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-16D	Plastic 2oz unpreserved for TS	D	N/A	4.5	Y	Absent	TS(7)
L1307016-16E	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-16F	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-16X	Vial MeOH preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-16Y	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-16Z	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-17A	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-17A1	Vial MeOH preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-17A2	Vial Water preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-17A3	Vial Water preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-17B	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-17B1	Vial MeOH preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-17B2	Vial Water preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-17B3	Vial water preserved	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-17C	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-17C1	Vial MeOH preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-17C2	Vial Water preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-17C3	Vial water preserved	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-17D	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-17E	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-17F	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-17G	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-17H	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-17I	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-17J	Plastic 2oz unpreserved for TS	F	N/A	5.1	Y	Absent	TS(7)
L1307016-17K	Plastic 2oz unpreserved for TS	F	N/A	5.1	Y	Absent	TS(7)
L1307016-17L	Plastic 2oz unpreserved for TS	F	N/A	5.1	Y	Absent	TS(7)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-17M	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-17N	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-17O	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-17P	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-17Q	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-17R	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-18A	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-18B	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-18C	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-18D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1307016-18E	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-18F	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-18X	Vial MeOH preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-18Y	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-18Z	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-19A	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-19B	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-19C	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-19D	Plastic 2oz unpreserved for TS	G	N/A	3.6	Y	Absent	TS(7)
L1307016-19E	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-19F	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-19X	Vial MeOH preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-19Y	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-19Z	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-20A	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-20B	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-20C	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-20D	Plastic 2oz unpreserved for TS	G	N/A	3.6	Y	Absent	TS(7)
L1307016-20E	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-20F	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-20X	Vial MeOH preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-20Y	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-20Z	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-21A	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-21B	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-21C	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-21D	Plastic 2oz unpreserved for TS	G	N/A	3.6	Y	Absent	TS(7)
L1307016-21E	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-21F	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-21X	Vial MeOH preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-21Y	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-21Z	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-22A	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-22B	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-22C	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-22D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1307016-22E	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-22F	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-22X	Vial MeOH preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-22Y	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-22Z	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-23A	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-23B	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-23C	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-23D	Plastic 2oz unpreserved for TS	C	N/A	2.8	Y	Absent	TS(7)
L1307016-23E	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-23F	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-23X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-23Y	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-23Z	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-24A	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-24B	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-24C	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-24D	Plastic 2oz unpreserved for TS	F	N/A	5.1	Y	Absent	TS(7)
L1307016-24E	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days





Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-24F	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-24X	Vial MeOH preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-24Y	Vial Water preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-24Z	Vial Water preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-25A	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-25B	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-25C	5 gram Encore Sampler	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(2)
L1307016-25D	Plastic 2oz unpreserved for TS	F	N/A	5.1	Y	Absent	TS(7)
L1307016-25E	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-25F	Amber 250ml unpreserved	F	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-25X	Vial MeOH preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-25Y	Vial Water preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-25Z	Vial Water preserved split	F	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1307016-26A	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-26B	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-26C	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-26D	Plastic 2oz unpreserved for TS	B	N/A	4.3	Y	Absent	TS(7)
L1307016-26E	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-26F	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-26X	Vial MeOH preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-26Y	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-26Z	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27A	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-27A1	Vial MeOH preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27A2	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27A3	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27B	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-27B1	Vial MeOH preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27B2	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27B3	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27C	Vial water preserved	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27C1	Vial MeOH preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27C2	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27C3	Vial water preserved	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-27D	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-27E	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-27F	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-27G	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-27H	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-27I	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-27J	Plastic 2oz unpreserved for TS	B	N/A	4.3	Y	Absent	TS(7)
L1307016-27K	Plastic 2oz unpreserved for TS	B	N/A	4.3	Y	Absent	TS(7)
L1307016-27L	Plastic 2oz unpreserved for TS	B	N/A	4.3	Y	Absent	TS(7)
L1307016-27M	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-27N	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-27O	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-27P	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-27Q	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-27R	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-28A	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-28B	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-28C	5 gram Encore Sampler	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(2)
L1307016-28D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-28E	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-28F	Amber 250ml unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-28X	Vial MeOH preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-28Y	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-28Z	Vial Water preserved split	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1307016-29A	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-29B	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-29C	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-29D	Plastic 2oz unpreserved for TS	D	N/A	4.5	Y	Absent	TS(7)
L1307016-29E	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-29F	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-29X	Vial MeOH preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-29Y	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-29Z	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-30A	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-30B	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-30C	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-30D	Plastic 2oz unpreserved for TS	D	N/A	4.5	Y	Absent	TS(7)
L1307016-30E	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-30F	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-30X	Vial MeOH preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-30Y	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-30Z	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-31A	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-31B	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-31C	5 gram Encore Sampler	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(2)
L1307016-31D	Plastic 2oz unpreserved for TS	B	N/A	4.3	Y	Absent	TS(7)
L1307016-31E	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-31F	Amber 250ml unpreserved	B	N/A	4.3	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-31X	Vial MeOH preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-31Y	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-31Z	Vial Water preserved split	B	N/A	4.3	Y	Absent	NYTCL-8260HLW(14)
L1307016-32A	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-32B	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-32C	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-32D	Plastic 2oz unpreserved for TS	D	N/A	4.5	Y	Absent	TS(7)
L1307016-32E	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-32F	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-32X	Vial MeOH preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-32Y	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-32Z	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-33A	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-33B	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-33C	5 gram Encore Sampler	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(2)
L1307016-33D	Plastic 2oz unpreserved for TS	D	N/A	4.5	Y	Absent	TS(7)
L1307016-33E	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-33F	Amber 250ml unpreserved	D	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-33X	Vial MeOH preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-33Y	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-33Z	Vial Water preserved split	D	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1307016-34A	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days





Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-34B	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-34C	5 gram Encore Sampler	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(2)
L1307016-34D	Plastic 2oz unpreserved for TS	G	N/A	3.6	Y	Absent	TS(7)
L1307016-34E	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-34F	Amber 250ml unpreserved	G	N/A	3.6	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-34X	Vial MeOH preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-34Y	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-34Z	Vial Water preserved split	G	N/A	3.6	Y	Absent	NYTCL-8260HLW(14)
L1307016-35A	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1307016-35B	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1307016-35C	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1307016-35D	Amber 1000ml unpreserved	A	N/A	3.9	Y	Absent	NYTCL-8082-1200ML(7)
L1307016-35E	Amber 1000ml unpreserved	A	N/A	3.9	Y	Absent	NYTCL-8082-1200ML(7)
L1307016-35F	Amber 1000ml unpreserved	A	N/A	3.9	Y	Absent	NYTCL-8081(7)
L1307016-35G	Amber 1000ml unpreserved	A	N/A	3.9	Y	Absent	NYTCL-8081(7)
L1307016-35H	Amber 1000ml unpreserved	A	N/A	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307016-35I	Amber 1000ml unpreserved	A	N/A	3.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307016-35J	Plastic 250ml NaOH preserved	A	N/A	3.9	Y	Absent	TCN-9010(14)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-35K	Plastic 500ml HNO3 preserved	A	N/A	3.9	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1307016-35L	Plastic 500ml unpreserved	A	N/A	3.9	Y	Absent	HEXCR-7196(1)
L1307016-36A	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1307016-36B	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1307016-37A	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-37B	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-37C	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-37D	Plastic 2oz unpreserved for TS	C	N/A	2.8	Y	Absent	TS(7)
L1307016-37E	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-37F	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-37X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-37Y	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-37Z	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-38A	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-38B	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)

\*Values in parentheses indicate holding time in days



Project Name: 514 W. 27TH ST. NYC

Project Number: E040

Lab Number: L1307016

Report Date: 04/29/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307016-38C	5 gram Encore Sampler	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(2)
L1307016-38D	Plastic 2oz unpreserved for TS	C	N/A	2.8	Y	Absent	TS(7)
L1307016-38E	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-38F	Amber 250ml unpreserved	C	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1307016-38X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-38Y	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)
L1307016-38Z	Vial Water preserved split	C	N/A	2.8	Y	Absent	NYTCL-8260HLW(14)

**Container Comments**

L1307016-05X

L1307016-07X

L1307016-18E

L1307016-32Z

\*Values in parentheses indicate holding time in days



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

**Report Format:** DU Report with "J" Qualifiers



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

**Data Qualifiers**

due to obvious interference.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.  
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

*Drinking Water* (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; Colilert, SM9223B; MF-SM9222D.)

*Non-Potable Water (Inorganic Parameters:*, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

*Organic Parameters:* (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. *Microbiology Parameters:* (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

**New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. *Organic Parameters:* 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. *Organic Parameters:* SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. *Organic Parameters:* SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

**New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. *Organic Parameters:* EPA 332, 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. *Organic Parameters:* SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. *Organic Parameters:* SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

**New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

*Non-Potable Water (Inorganic Parameters:* SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. *Organic Parameters:* EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

*Solid & Hazardous Waste (Inorganic Parameters:* EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. *Organic Parameters:* EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,



3546, 3580A, 5030B, 5035A-H, 5035A-L.)

**North Carolina Department of the Environment and Natural Resources** Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO<sub>3</sub>-F, 353.2, 4500P-E, 4500SO<sub>4</sub>-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

**Pennsylvania Department of Environmental Protection** Certificate/Lab ID : 68-03671. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>-B, 4500NO<sub>3</sub>-F, 4500S-D, 4500SO<sub>3</sub>-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH<sub>3</sub>-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commission on Environmental Quality** Certificate/Lab ID: T104704476. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>B, 4500P-E, 4500 S<sup>2-</sup> D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID: 460195. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.

*Drinking Water* (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO<sub>3</sub>-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

**The following analytes are not included in our current NELAP/TNI Scope of Accreditation:**

**EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO<sub>2</sub> in a soil matrix, NO<sub>3</sub> in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.



# CHAIN OF CUSTODY

PAGE 1 OF 4

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

## Project Information

Project Name: 514 W 27<sup>TH</sup> ST NYC

Project Location: 514 W 27<sup>TH</sup> ST NYC

Project #: E040

Project Manager: ALANA CARROLL

ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/26/13 Time:

Date Rec'd in Lab: 4/19/13

## Report Information - Data Deliverables

☐ FAX ☒ EMAIL  
☒ ADEx ☐ Add'l Deliverables

ALPHA Job #: L1305016

## Billing Information

☐ Same as Client info PO #:

## Client Information

Client: INTEGRAL CONSULTING

Address: 267 BROADWAY 5<sup>TH</sup> FL

NEW YORK NY 10007

Phone: (212) 962 4361

Fax: (212) 962 4302

Email: ACARROLL@INTEGRAL-CONS.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

## Regulatory Requirements/Report Limits

State /Fed Program Criteria

## SAMPLE HANDLING

Filtration \_\_\_\_\_  
☐ Done  
☐ Not needed  
☐ Lab to do  
☐ Preservation  
☐ Lab to do  
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS <u>8270C, 8081A, 8082 6010B/1470A, 3060A, 9013 TS</u>												Sample Specific Comments	
		Date	Time																
<u>07016.1</u>	<u>SB-12-1-3</u>	<u>4/18/13</u>	<u>1540</u>	<u>S</u>	<u>JPL</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										<u>6</u>
<u>2</u>	<u>SB-12-7-9</u>		<u>1550</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>3</u>	<u>SB-9-1-3</u>		<u>1610</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>4</u>	<u>SB-9-3-5</u>		<u>1620</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>5</u>	<u>SB-13-1-3</u>		<u>1630</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>6</u>	<u>SB-13-7-9</u>		<u>1635</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>7</u>	<u>SB-18-1-3</u>		<u>1645</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>8</u>	<u>SB-18-7-9</u>		<u>1650</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>9</u>	<u>SB-8-0-2</u>		<u>1705</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>10</u>	<u>SB-8-8-10</u>		<u>1715</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										

Container Type: E A A P  
Preservative: A A A A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time



# CHAIN OF CUSTODY

PAGE 2 OF 4

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

## Project Information

Project Name: 514 W 27TH ST NYC

Project Location: 514 W 27TH ST NYC

Project #: E040

Project Manager: ALANA CARROLL

ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/26/13 Time:

## Client Information

Client: INTEGRAL CONSULTING

Address: 267 BROADWAY 5TH FL

NEW YORK, NY 10007

Phone: (212) 962 4361

Fax: (212) 962 4302

Email: ACARROLL@INTEGRAL-CORP.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 4/19/13

## Report Information - Data Deliverables

☐ FAX

☒ EMAIL

☒ ADDEX

☐ Add'l Deliverables

## Billing Information

☐ Same as Client info

PO #:

## Regulatory Requirements/Report Limits

State /Fed Program

Criteria

ANALYSIS  
SB-28-1-3  
SB-28-7-9  
SB-25-1-3  
SB-25-7-9  
SB-27-1-3  
SB-27-7-9  
SB-27-7-9-MS/MSD  
SB-10-1-3  
SB-10-8-10

## SAMPLE HANDLING

Filtration

- ☐ Done
- ☐ Not needed
- ☐ Lab to do
- ☐ Preservation
- ☐ Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials													(Please specify below)	LES
		Date	Time																
0701611	SB-28-1-3	4/18/13	0840	S	JPL	X	X	X	X										6
12	SB-28-7-9		0850			X	X	X	X										6
13	SB-25-1-3		0920			X	X	X	X										6
14	SB-25-7-9		0930			X	X	X	X										6
15	SB-25-7-9_FIELD-DUP		0930			X	X	X	X										6
16	SB-27-1-3		1440			X	X	X	X										6
17	SB-27-7-9		1450			X	X	X	X										6
17	SB-27-7-9-MS/MSD		1450			X	X	X	X										12
18	SB-10-1-3		1510			X	X	X	X										6
19	SB-10-8-10		1520			X	X	X	X										6

Container Type

E A A P

Preservative

A A A A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

# CHAIN OF CUSTODY

PAGE 3 OF 4

Date Rec'd in Lab: 4/19/13 ALPHA Job #: L1307016

**Project Information**

Project Name: 514 W 27th ST NYC

Project Location: 514 W 27th ST NYC

Project #: E040

Project Manager: ALANA CARROLL

ALPHA Quote #:

**Report Information - Data Deliverables**

☐ FAX ☒ EMAIL

☒ ADEX ☐ Add'l Deliverables

**Billing Information**

☐ Same as Client info PO #:

**Client Information**

Client: INTEGRAL CONSULTING

Address: 267 BROADWAY 5TH FL  
NEW YORK, NY 10007

Phone: (212) 962 4301

Fax: (212) 962 4302

Email: ACARROLL@INTEGRAL-CON.COM

☐ These samples have been previously analyzed by Alpha

**Turn-Around Time**

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/26/13 Time:

**Regulatory Requirements/Report Limits**

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**

SB-15-0-2 SB-15-8-10 SB-16-1-3 SB-16-7-9 SB-16-7-9-FIELD-DUP SB-24-1-3 SB-24-8-10 SB-23-0-2 SB-23-0-2-MS/MSD SB-23-7-9

8270C, 8081A, 8082 6010B/7470A, 3060A, 9013 TS

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

☐ Done

☐ Not needed

☐ Lab to do

☐ Preservation

☐ Lab to do

(Please specify below)

**Sample Specific Comments**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials													TOTAL # BOTTLES
		Date	Time															
<u>0701620</u>	<u>SB-15-0-2</u>	<u>4/19/13</u>	<u>0850</u>	<u>S</u>	<u>JPL</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>6</u>
<u>21</u>	<u>SB-15-8-10</u>		<u>0900</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>6</u>
<u>22</u>	<u>SB-16-1-3</u>		<u>0930</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>6</u>
<u>23</u>	<u>SB-16-7-9</u>		<u>0940</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>6</u>
<u>24</u>	<u>SB-16-7-9-FIELD-DUP</u>		<u>0940</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>6</u>
<u>25</u>	<u>SB-24-1-3</u>		<u>1010</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>6</u>
<u>26</u>	<u>SB-24-8-10</u>		<u>1020</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>6</u>
<u>27</u>	<u>SB-23-0-2</u>		<u>1040</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>6</u>
<u>2728</u>	<u>SB-23-0-2-MS/MSD</u>		<u>1040</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>12</u>
<u>28</u>	<u>SB-23-7-9</u>		<u>1055</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>									<u>6</u>

Container Type: E A A P

Preservative: A A A A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By: [Signature] Date/Time: 4/19/13 15:47

Received By: [Signature] Date/Time: 4/19/13 15:47

4/19/13 1900 4/19/13 2350 4/19/13 2350



# CHAIN OF CUSTODY

PAGE 4 OF 4

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

## Project Information

Project Name: 514 W 27TH ST NYC  
Project Location: 514 W 27TH ST NYC  
Project #: E040  
Project Manager: ALANA CARROLL  
ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 4/26/13 Time:

Date Rec'd in Lab: 4/19/13

ALPHA Job #: L1307016

## Report Information - Data Deliverables

☐ FAX ☒ EMAIL  
☒ ADEX ☐ Add'l Deliverables

## Billing Information

☐ Same as Client info PO #:

## Regulatory Requirements/Report Limits

State /Fed Program Criteria

## Client Information

Client: INTEGRAL CONSULTING  
Address: 267 BROADWAY 5TH FL  
NEW YORK, NY 10007  
Phone: (212) 962 4301  
Fax: (212) 962 4302

Email: ACARROLL@INTEGRAL-CORP.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

## SAMPLE HANDLING

Filtration \_\_\_\_\_  
☐ Done  
☐ Not needed  
☐ Lab to do  
Preservation  
☐ Lab to do  
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	T e m p	
		Date	Time			5052/75032A	8270C, 8081A, 8082	6010B/7470A, 3060A	9013	5052/75032A	8270C, 8081A, 8082	9013	6010B/7470A	3060A				
97016	SB-17-1-3	4/19/13	1110	S	JPL	X	X	X	X									6
130	SB-17-7-9		1120			X	X	X	X									6
21	SB-11-1-3		1140			X	X	X	X									6
132	SB-11-7-9		1150			X	X	X	X									6
133	SB-7-0-2		1210			X	X	X	X									6
139	SB-7-7-9		1220			X	X	X	X									6
135	FIELD BLANK		-							X	X	X	X	X				12
136	TRIP BLANK		-							X								2
137	SB-26-0-2	4/19/13	1725	S		X	X	X	X									6
138	SB-26-7-9	4/19/13	1735	S		X	X	X	X									6

Container Type

E A A P V A P P P

Preservative

A A A A B A E C A

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



## ANALYTICAL REPORT

Lab Number:	L1307128
Client:	Integral Consulting, Inc. 267 Broadway Fifth Floor New York, NY 10007
ATTN:	Alana Carroll
Phone:	(212) 962-4301
Project Name:	514 W. 27TH ST NYC
Project Number:	E040
Report Date:	04/29/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

---

320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307128  
**Report Date:** 04/29/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1307128-01	AMBIENT AIR	514 W. 27TH ST NYC	04/19/13 13:45
L1307128-02	SV-7	514 W. 27TH ST NYC	04/19/13 13:29
L1307128-03	SV-6	514 W. 27TH ST NYC	04/19/13 13:41
L1307128-04	SV-9	514 W. 27TH ST NYC	04/19/13 13:52
L1307128-05	SV-8	514 W. 27TH ST NYC	04/19/13 14:18
L1307128-06	SV-8 DUPLICATE	514 W. 27TH ST NYC	04/19/13 14:18
L1307128-07	SV-10	514 W. 27TH ST NYC	04/19/13 14:33
L1307128-08	SV-11	514 W. 27TH ST NYC	04/19/13 14:39
L1307128-09	SV-12	514 W. 27TH ST NYC	04/19/13 14:45



**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307128  
**Report Date:** 04/29/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307128  
**Report Date:** 04/29/13

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on April 17, 2013. The canister certification results are provided as an addendum.

L1307128-03 The RPD of the pre- and post-flow controller calibration check (21% RPD) was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 6.3 mL/minute; the final flow rate was 7.8 mL/minute. The final pressure recorded by the laboratory of the associated canister was -6.9 inches of mercury.

Samples L1307128-02 through -09: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen due to canister size. The pressurization resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

Sample L1307128-02 has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Sample L1307128-07 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/29/13

**AIR**

**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307128-01  
**Client ID:** AMBIENT AIR  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15  
**Analytical Date:** 04/24/13 19:00  
**Analyst:** RY

**Date Collected:** 04/19/13 13:45  
**Date Received:** 04/22/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.429	0.200	--	2.12	0.989	--		1
Chloromethane	0.489	0.200	--	1.01	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	12.6	2.50	--	23.7	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.21	1.00	--	10.0	2.38	--		1
Trichlorofluoromethane	0.256	0.200	--	1.44	1.12	--		1
Isopropanol	1.30	0.500	--	3.20	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	1.49	1.00	--	5.18	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	0.291	0.200	--	0.858	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-01  
 Client ID: AMBIENT AIR  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 13:45  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.237	0.200	--	0.757	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.683	0.200	--	2.57	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.317	0.200	--	2.15	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-01  
 Client ID: AMBIENT AIR  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 13:45  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	73		60-140



**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307128-02 D  
**Client ID:** SV-7  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15  
**Analytical Date:** 04/24/13 23:35  
**Analyst:** RY

**Date Collected:** 04/19/13 13:29  
**Date Received:** 04/22/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	ND	2.26	--	ND	3.89	--		4.53
Dichlorodifluoromethane	ND	0.906	--	ND	4.48	--		4.53
Chloromethane	ND	0.906	--	ND	1.87	--		4.53
Freon-114	ND	0.906	--	ND	6.33	--		4.53
Vinyl chloride	ND	0.906	--	ND	2.32	--		4.53
1,3-Butadiene	ND	0.906	--	ND	2.00	--		4.53
Bromomethane	ND	0.906	--	ND	3.52	--		4.53
Chloroethane	ND	0.906	--	ND	2.39	--		4.53
Ethanol	13.0	11.3	--	24.5	21.3	--		4.53
Vinyl bromide	ND	0.906	--	ND	3.96	--		4.53
Acetone	11.3	4.53	--	26.8	10.8	--		4.53
Trichlorofluoromethane	ND	0.906	--	ND	5.09	--		4.53
Isopropanol	ND	2.26	--	ND	5.56	--		4.53
1,1-Dichloroethene	ND	0.906	--	ND	3.59	--		4.53
Methylene chloride	ND	4.53	--	ND	15.7	--		4.53
3-Chloropropene	ND	0.906	--	ND	2.84	--		4.53
Carbon disulfide	ND	0.906	--	ND	2.82	--		4.53
Freon-113	ND	0.906	--	ND	6.94	--		4.53
trans-1,2-Dichloroethene	ND	0.906	--	ND	3.59	--		4.53
1,1-Dichloroethane	ND	0.906	--	ND	3.67	--		4.53
Methyl tert butyl ether	ND	0.906	--	ND	3.27	--		4.53
Vinyl acetate	ND	0.906	--	ND	3.19	--		4.53
2-Butanone	1.79	0.906	--	5.28	2.67	--		4.53
cis-1,2-Dichloroethene	ND	0.906	--	ND	3.59	--		4.53



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-02 D  
 Client ID: SV-7  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 13:29  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.26	--	ND	8.14	--		4.53
Chloroform	34.5	0.906	--	168	4.42	--		4.53
Tetrahydrofuran	ND	0.906	--	ND	2.67	--		4.53
1,2-Dichloroethane	ND	0.906	--	ND	3.67	--		4.53
n-Hexane	ND	0.906	--	ND	3.19	--		4.53
1,1,1-Trichloroethane	ND	0.906	--	ND	4.94	--		4.53
Benzene	ND	0.906	--	ND	2.89	--		4.53
Carbon tetrachloride	ND	0.906	--	ND	5.70	--		4.53
Cyclohexane	ND	0.906	--	ND	3.12	--		4.53
1,2-Dichloropropane	ND	0.906	--	ND	4.19	--		4.53
Bromodichloromethane	2.08	0.906	--	13.9	6.07	--		4.53
1,4-Dioxane	ND	0.906	--	ND	3.26	--		4.53
Trichloroethene	ND	0.906	--	ND	4.87	--		4.53
2,2,4-Trimethylpentane	ND	0.906	--	ND	4.23	--		4.53
Heptane	ND	0.906	--	ND	3.71	--		4.53
cis-1,3-Dichloropropene	ND	0.906	--	ND	4.11	--		4.53
4-Methyl-2-pentanone	ND	0.906	--	ND	3.71	--		4.53
trans-1,3-Dichloropropene	ND	0.906	--	ND	4.11	--		4.53
1,1,2-Trichloroethane	ND	0.906	--	ND	4.94	--		4.53
Toluene	2.04	0.906	--	7.69	3.41	--		4.53
2-Hexanone	ND	0.906	--	ND	3.71	--		4.53
Dibromochloromethane	ND	0.906	--	ND	7.72	--		4.53
1,2-Dibromoethane	ND	0.906	--	ND	6.96	--		4.53
Tetrachloroethene	4.10	0.906	--	27.8	6.14	--		4.53
Chlorobenzene	ND	0.906	--	ND	4.17	--		4.53
Ethylbenzene	ND	0.906	--	ND	3.94	--		4.53
p/m-Xylene	1.92	1.81	--	8.34	7.86	--		4.53
Bromoform	ND	0.906	--	ND	9.37	--		4.53





**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-02 D  
 Client ID: SV-7  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 13:29  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.906	--	ND	3.86	--		4.53
1,1,2,2-Tetrachloroethane	ND	0.906	--	ND	6.22	--		4.53
o-Xylene	ND	0.906	--	ND	3.94	--		4.53
4-Ethyltoluene	ND	0.906	--	ND	4.45	--		4.53
1,3,5-Trimethybenzene	ND	0.906	--	ND	4.45	--		4.53
1,2,4-Trimethylbenzene	2.15	0.906	--	10.6	4.45	--		4.53
Benzyl chloride	ND	0.906	--	ND	4.69	--		4.53
1,3-Dichlorobenzene	ND	0.906	--	ND	5.45	--		4.53
1,4-Dichlorobenzene	ND	0.906	--	ND	5.45	--		4.53
1,2-Dichlorobenzene	ND	0.906	--	ND	5.45	--		4.53
1,2,4-Trichlorobenzene	ND	0.906	--	ND	6.73	--		4.53
Hexachlorobutadiene	ND	0.906	--	ND	9.66	--		4.53

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	93		60-140



**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307128-03 D  
**Client ID:** SV-6  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15  
**Analytical Date:** 04/25/13 00:06  
**Analyst:** RY

**Date Collected:** 04/19/13 13:41  
**Date Received:** 04/22/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	12.4	1.34	--	21.3	2.31	--		2.676
Dichlorodifluoromethane	0.947	0.535	--	4.68	2.65	--		2.676
Chloromethane	ND	0.535	--	ND	1.10	--		2.676
Freon-114	ND	0.535	--	ND	3.74	--		2.676
Vinyl chloride	ND	0.535	--	ND	1.37	--		2.676
1,3-Butadiene	ND	0.535	--	ND	1.18	--		2.676
Bromomethane	ND	0.535	--	ND	2.08	--		2.676
Chloroethane	ND	0.535	--	ND	1.41	--		2.676
Ethanol	ND	6.69	--	ND	12.6	--		2.676
Vinyl bromide	ND	0.535	--	ND	2.34	--		2.676
Acetone	5.78	2.68	--	13.7	6.37	--		2.676
Trichlorofluoromethane	22.0	0.535	--	124	3.01	--		2.676
Isopropanol	ND	1.34	--	ND	3.29	--		2.676
1,1-Dichloroethene	ND	0.535	--	ND	2.12	--		2.676
Methylene chloride	ND	2.68	--	ND	9.31	--		2.676
3-Chloropropene	ND	0.535	--	ND	1.67	--		2.676
Carbon disulfide	4.22	0.535	--	13.1	1.67	--		2.676
Freon-113	ND	0.535	--	ND	4.10	--		2.676
trans-1,2-Dichloroethene	ND	0.535	--	ND	2.12	--		2.676
1,1-Dichloroethane	ND	0.535	--	ND	2.17	--		2.676
Methyl tert butyl ether	ND	0.535	--	ND	1.93	--		2.676
Vinyl acetate	ND	0.535	--	ND	1.88	--		2.676
2-Butanone	1.59	0.535	--	4.69	1.58	--		2.676
cis-1,2-Dichloroethene	ND	0.535	--	ND	2.12	--		2.676



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-03 D  
 Client ID: SV-6  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 13:41  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.34	--	ND	4.83	--		2.676
Chloroform	1.50	0.535	--	7.33	2.61	--		2.676
Tetrahydrofuran	ND	0.535	--	ND	1.58	--		2.676
1,2-Dichloroethane	ND	0.535	--	ND	2.17	--		2.676
n-Hexane	2.47	0.535	--	8.71	1.89	--		2.676
1,1,1-Trichloroethane	3.73	0.535	--	20.4	2.92	--		2.676
Benzene	3.44	0.535	--	11.0	1.71	--		2.676
Carbon tetrachloride	ND	0.535	--	ND	3.37	--		2.676
Cyclohexane	0.626	0.535	--	2.15	1.84	--		2.676
1,2-Dichloropropane	ND	0.535	--	ND	2.47	--		2.676
Bromodichloromethane	ND	0.535	--	ND	3.58	--		2.676
1,4-Dioxane	ND	0.535	--	ND	1.93	--		2.676
Trichloroethene	3.20	0.535	--	17.2	2.88	--		2.676
2,2,4-Trimethylpentane	ND	0.535	--	ND	2.50	--		2.676
Heptane	0.578	0.535	--	2.37	2.19	--		2.676
cis-1,3-Dichloropropene	ND	0.535	--	ND	2.43	--		2.676
4-Methyl-2-pentanone	ND	0.535	--	ND	2.19	--		2.676
trans-1,3-Dichloropropene	ND	0.535	--	ND	2.43	--		2.676
1,1,2-Trichloroethane	ND	0.535	--	ND	2.92	--		2.676
Toluene	1.64	0.535	--	6.18	2.02	--		2.676
2-Hexanone	ND	0.535	--	ND	2.19	--		2.676
Dibromochloromethane	ND	0.535	--	ND	4.56	--		2.676
1,2-Dibromoethane	ND	0.535	--	ND	4.11	--		2.676
Tetrachloroethene	15.7	0.535	--	106	3.63	--		2.676
Chlorobenzene	ND	0.535	--	ND	2.46	--		2.676
Ethylbenzene	ND	0.535	--	ND	2.32	--		2.676
p/m-Xylene	1.98	1.07	--	8.60	4.65	--		2.676
Bromoform	ND	0.535	--	ND	5.53	--		2.676



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-03 D  
 Client ID: SV-6  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 13:41  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.535	--	ND	2.28	--		2.676
1,1,2,2-Tetrachloroethane	ND	0.535	--	ND	3.67	--		2.676
o-Xylene	0.840	0.535	--	3.65	2.32	--		2.676
4-Ethyltoluene	0.548	0.535	--	2.69	2.63	--		2.676
1,3,5-Trimethybenzene	0.618	0.535	--	3.04	2.63	--		2.676
1,2,4-Trimethylbenzene	2.40	0.535	--	11.8	2.63	--		2.676
Benzyl chloride	ND	0.535	--	ND	2.77	--		2.676
1,3-Dichlorobenzene	ND	0.535	--	ND	3.22	--		2.676
1,4-Dichlorobenzene	ND	0.535	--	ND	3.22	--		2.676
1,2-Dichlorobenzene	ND	0.535	--	ND	3.22	--		2.676
1,2,4-Trichlorobenzene	ND	0.535	--	ND	3.97	--		2.676
Hexachlorobutadiene	ND	0.535	--	ND	5.71	--		2.676

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	93		60-140



**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307128-04 D  
**Client ID:** SV-9  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15  
**Analytical Date:** 04/25/13 00:36  
**Analyst:** RY

**Date Collected:** 04/19/13 13:52  
**Date Received:** 04/22/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	17.0	1.33	--	29.3	2.29	--		2.667
Dichlorodifluoromethane	ND	0.533	--	ND	2.64	--		2.667
Chloromethane	ND	0.533	--	ND	1.10	--		2.667
Freon-114	ND	0.533	--	ND	3.73	--		2.667
Vinyl chloride	ND	0.533	--	ND	1.36	--		2.667
1,3-Butadiene	ND	0.533	--	ND	1.18	--		2.667
Bromomethane	ND	0.533	--	ND	2.07	--		2.667
Chloroethane	ND	0.533	--	ND	1.41	--		2.667
Ethanol	ND	6.67	--	ND	12.6	--		2.667
Vinyl bromide	ND	0.533	--	ND	2.33	--		2.667
Acetone	4.66	2.67	--	11.1	6.34	--		2.667
Trichlorofluoromethane	0.891	0.533	--	5.01	3.00	--		2.667
Isopropanol	ND	1.33	--	ND	3.27	--		2.667
1,1-Dichloroethene	ND	0.533	--	ND	2.11	--		2.667
Methylene chloride	3.04	2.67	--	10.6	9.28	--		2.667
3-Chloropropene	ND	0.533	--	ND	1.67	--		2.667
Carbon disulfide	1.57	0.533	--	4.89	1.66	--		2.667
Freon-113	ND	0.533	--	ND	4.09	--		2.667
trans-1,2-Dichloroethene	ND	0.533	--	ND	2.11	--		2.667
1,1-Dichloroethane	0.605	0.533	--	2.45	2.16	--		2.667
Methyl tert butyl ether	ND	0.533	--	ND	1.92	--		2.667
Vinyl acetate	ND	0.533	--	ND	1.88	--		2.667
2-Butanone	1.66	0.533	--	4.90	1.57	--		2.667
cis-1,2-Dichloroethene	ND	0.533	--	ND	2.11	--		2.667



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-04 D  
 Client ID: SV-9  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 13:52  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.33	--	ND	4.79	--		2.667
Chloroform	1.50	0.533	--	7.33	2.60	--		2.667
Tetrahydrofuran	ND	0.533	--	ND	1.57	--		2.667
1,2-Dichloroethane	ND	0.533	--	ND	2.16	--		2.667
n-Hexane	81.1	0.533	--	286	1.88	--		2.667
1,1,1-Trichloroethane	3.11	0.533	--	17.0	2.91	--		2.667
Benzene	3.26	0.533	--	10.4	1.70	--		2.667
Carbon tetrachloride	ND	0.533	--	ND	3.35	--		2.667
Cyclohexane	ND	0.533	--	ND	1.83	--		2.667
1,2-Dichloropropane	ND	0.533	--	ND	2.46	--		2.667
Bromodichloromethane	ND	0.533	--	ND	3.57	--		2.667
1,4-Dioxane	ND	0.533	--	ND	1.92	--		2.667
Trichloroethene	154	0.533	--	828	2.86	--		2.667
2,2,4-Trimethylpentane	ND	0.533	--	ND	2.49	--		2.667
Heptane	36.0	0.533	--	148	2.18	--		2.667
cis-1,3-Dichloropropene	ND	0.533	--	ND	2.42	--		2.667
4-Methyl-2-pentanone	ND	0.533	--	ND	2.18	--		2.667
trans-1,3-Dichloropropene	ND	0.533	--	ND	2.42	--		2.667
1,1,2-Trichloroethane	ND	0.533	--	ND	2.91	--		2.667
Toluene	2.28	0.533	--	8.59	2.01	--		2.667
2-Hexanone	ND	0.533	--	ND	2.18	--		2.667
Dibromochloromethane	ND	0.533	--	ND	4.54	--		2.667
1,2-Dibromoethane	ND	0.533	--	ND	4.10	--		2.667
Tetrachloroethene	3.90	0.533	--	26.4	3.61	--		2.667
Chlorobenzene	ND	0.533	--	ND	2.45	--		2.667
Ethylbenzene	0.656	0.533	--	2.85	2.32	--		2.667
p/m-Xylene	2.54	1.07	--	11.0	4.65	--		2.667
Bromoform	ND	0.533	--	ND	5.51	--		2.667



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-04 D  
 Client ID: SV-9  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 13:52  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.533	--	ND	2.27	--		2.667
1,1,2,2-Tetrachloroethane	ND	0.533	--	ND	3.66	--		2.667
o-Xylene	1.02	0.533	--	4.43	2.32	--		2.667
4-Ethyltoluene	ND	0.533	--	ND	2.62	--		2.667
1,3,5-Trimethybenzene	ND	0.533	--	ND	2.62	--		2.667
1,2,4-Trimethylbenzene	1.96	0.533	--	9.64	2.62	--		2.667
Benzyl chloride	ND	0.533	--	ND	2.76	--		2.667
1,3-Dichlorobenzene	ND	0.533	--	ND	3.20	--		2.667
1,4-Dichlorobenzene	ND	0.533	--	ND	3.20	--		2.667
1,2-Dichlorobenzene	ND	0.533	--	ND	3.20	--		2.667
1,2,4-Trichlorobenzene	ND	0.533	--	ND	3.96	--		2.667
Hexachlorobutadiene	ND	0.533	--	ND	5.69	--		2.667

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	94		60-140



**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307128-05 D  
**Client ID:** SV-8  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15  
**Analytical Date:** 04/25/13 01:06  
**Analyst:** RY

**Date Collected:** 04/19/13 14:18  
**Date Received:** 04/22/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	40.0	1.32	--	68.8	2.27	--		2.637
Dichlorodifluoromethane	2.49	0.527	--	12.3	2.61	--		2.637
Chloromethane	ND	0.527	--	ND	1.09	--		2.637
Freon-114	ND	0.527	--	ND	3.68	--		2.637
Vinyl chloride	ND	0.527	--	ND	1.35	--		2.637
1,3-Butadiene	ND	0.527	--	ND	1.17	--		2.637
Bromomethane	ND	0.527	--	ND	2.05	--		2.637
Chloroethane	ND	0.527	--	ND	1.39	--		2.637
Ethanol	30.7	6.59	--	57.8	12.4	--		2.637
Vinyl bromide	ND	0.527	--	ND	2.30	--		2.637
Acetone	42.3	2.64	--	100	6.27	--		2.637
Trichlorofluoromethane	27.4	0.527	--	154	2.96	--		2.637
Isopropanol	2.04	1.32	--	5.01	3.24	--		2.637
1,1-Dichloroethene	ND	0.527	--	ND	2.09	--		2.637
Methylene chloride	ND	2.64	--	ND	9.17	--		2.637
3-Chloropropene	ND	0.527	--	ND	1.65	--		2.637
Carbon disulfide	3.30	0.527	--	10.3	1.64	--		2.637
Freon-113	ND	0.527	--	ND	4.04	--		2.637
trans-1,2-Dichloroethene	ND	0.527	--	ND	2.09	--		2.637
1,1-Dichloroethane	ND	0.527	--	ND	2.13	--		2.637
Methyl tert butyl ether	ND	0.527	--	ND	1.90	--		2.637
Vinyl acetate	ND	0.527	--	ND	1.86	--		2.637
2-Butanone	15.7	0.527	--	46.3	1.55	--		2.637
cis-1,2-Dichloroethene	ND	0.527	--	ND	2.09	--		2.637





**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-05 D  
 Client ID: SV-8  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:18  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.32	--	ND	4.76	--		2.637
Chloroform	17.9	0.527	--	87.4	2.57	--		2.637
Tetrahydrofuran	1.57	0.527	--	4.63	1.55	--		2.637
1,2-Dichloroethane	ND	0.527	--	ND	2.13	--		2.637
n-Hexane	12.1	0.527	--	42.6	1.86	--		2.637
1,1,1-Trichloroethane	1.10	0.527	--	6.00	2.88	--		2.637
Benzene	4.04	0.527	--	12.9	1.68	--		2.637
Carbon tetrachloride	ND	0.527	--	ND	3.32	--		2.637
Cyclohexane	0.860	0.527	--	2.96	1.81	--		2.637
1,2-Dichloropropane	ND	0.527	--	ND	2.44	--		2.637
Bromodichloromethane	0.612	0.527	--	4.10	3.53	--		2.637
1,4-Dioxane	ND	0.527	--	ND	1.90	--		2.637
Trichloroethene	1.17	0.527	--	6.29	2.83	--		2.637
2,2,4-Trimethylpentane	ND	0.527	--	ND	2.46	--		2.637
Heptane	3.41	0.527	--	14.0	2.16	--		2.637
cis-1,3-Dichloropropene	ND	0.527	--	ND	2.39	--		2.637
4-Methyl-2-pentanone	ND	0.527	--	ND	2.16	--		2.637
trans-1,3-Dichloropropene	ND	0.527	--	ND	2.39	--		2.637
1,1,2-Trichloroethane	ND	0.527	--	ND	2.88	--		2.637
Toluene	14.2	0.527	--	53.5	1.99	--		2.637
2-Hexanone	ND	0.527	--	ND	2.16	--		2.637
Dibromochloromethane	ND	0.527	--	ND	4.49	--		2.637
1,2-Dibromoethane	ND	0.527	--	ND	4.05	--		2.637
Tetrachloroethene	8.22	0.527	--	55.7	3.57	--		2.637
Chlorobenzene	ND	0.527	--	ND	2.43	--		2.637
Ethylbenzene	2.90	0.527	--	12.6	2.29	--		2.637
p/m-Xylene	11.2	1.05	--	48.6	4.56	--		2.637
Bromoform	ND	0.527	--	ND	5.45	--		2.637



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-05 D  
 Client ID: SV-8  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:18  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.527	--	ND	2.24	--		2.637
1,1,2,2-Tetrachloroethane	ND	0.527	--	ND	3.62	--		2.637
o-Xylene	3.45	0.527	--	15.0	2.29	--		2.637
4-Ethyltoluene	1.38	0.527	--	6.78	2.59	--		2.637
1,3,5-Trimethybenzene	1.44	0.527	--	7.08	2.59	--		2.637
1,2,4-Trimethylbenzene	4.57	0.527	--	22.5	2.59	--		2.637
Benzyl chloride	ND	0.527	--	ND	2.73	--		2.637
1,3-Dichlorobenzene	ND	0.527	--	ND	3.17	--		2.637
1,4-Dichlorobenzene	ND	0.527	--	ND	3.17	--		2.637
1,2-Dichlorobenzene	ND	0.527	--	ND	3.17	--		2.637
1,2,4-Trichlorobenzene	ND	0.527	--	ND	3.91	--		2.637
Hexachlorobutadiene	ND	0.527	--	ND	5.62	--		2.637

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	95		60-140



**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307128-06 D  
**Client ID:** SV-8 DUPLICATE  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15  
**Analytical Date:** 04/25/13 01:37  
**Analyst:** RY

**Date Collected:** 04/19/13 14:18  
**Date Received:** 04/22/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	38.7	1.46	--	66.6	2.51	--		2.912
Dichlorodifluoromethane	2.06	0.582	--	10.2	2.88	--		2.912
Chloromethane	ND	0.582	--	ND	1.20	--		2.912
Freon-114	ND	0.582	--	ND	4.07	--		2.912
Vinyl chloride	ND	0.582	--	ND	1.49	--		2.912
1,3-Butadiene	ND	0.582	--	ND	1.29	--		2.912
Bromomethane	ND	0.582	--	ND	2.26	--		2.912
Chloroethane	ND	0.582	--	ND	1.54	--		2.912
Ethanol	50.4	7.28	--	95.0	13.7	--		2.912
Vinyl bromide	ND	0.582	--	ND	2.54	--		2.912
Acetone	41.8	2.91	--	99.3	6.91	--		2.912
Trichlorofluoromethane	27.2	0.582	--	153	3.27	--		2.912
Isopropanol	ND	1.46	--	ND	3.59	--		2.912
1,1-Dichloroethene	ND	0.582	--	ND	2.31	--		2.912
Methylene chloride	ND	2.91	--	ND	10.1	--		2.912
3-Chloropropene	ND	0.582	--	ND	1.82	--		2.912
Carbon disulfide	3.08	0.582	--	9.59	1.81	--		2.912
Freon-113	ND	0.582	--	ND	4.46	--		2.912
trans-1,2-Dichloroethene	ND	0.582	--	ND	2.31	--		2.912
1,1-Dichloroethane	ND	0.582	--	ND	2.36	--		2.912
Methyl tert butyl ether	ND	0.582	--	ND	2.10	--		2.912
Vinyl acetate	ND	0.582	--	ND	2.05	--		2.912
2-Butanone	15.9	0.582	--	46.9	1.72	--		2.912
cis-1,2-Dichloroethene	ND	0.582	--	ND	2.31	--		2.912



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-06 D  
 Client ID: SV-8 DUPLICATE  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:18  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.46	--	ND	5.26	--		2.912
Chloroform	17.1	0.582	--	83.5	2.84	--		2.912
Tetrahydrofuran	1.55	0.582	--	4.57	1.72	--		2.912
1,2-Dichloroethane	ND	0.582	--	ND	2.36	--		2.912
n-Hexane	11.7	0.582	--	41.2	2.05	--		2.912
1,1,1-Trichloroethane	1.06	0.582	--	5.78	3.18	--		2.912
Benzene	4.35	0.582	--	13.9	1.86	--		2.912
Carbon tetrachloride	ND	0.582	--	ND	3.66	--		2.912
Cyclohexane	0.728	0.582	--	2.51	2.00	--		2.912
1,2-Dichloropropane	ND	0.582	--	ND	2.69	--		2.912
Bromodichloromethane	0.626	0.582	--	4.19	3.90	--		2.912
1,4-Dioxane	ND	0.582	--	ND	2.10	--		2.912
Trichloroethene	1.17	0.582	--	6.29	3.13	--		2.912
2,2,4-Trimethylpentane	ND	0.582	--	ND	2.72	--		2.912
Heptane	3.22	0.582	--	13.2	2.39	--		2.912
cis-1,3-Dichloropropene	ND	0.582	--	ND	2.64	--		2.912
4-Methyl-2-pentanone	ND	0.582	--	ND	2.39	--		2.912
trans-1,3-Dichloropropene	ND	0.582	--	ND	2.64	--		2.912
1,1,2-Trichloroethane	ND	0.582	--	ND	3.18	--		2.912
Toluene	13.7	0.582	--	51.6	2.19	--		2.912
2-Hexanone	ND	0.582	--	ND	2.39	--		2.912
Dibromochloromethane	ND	0.582	--	ND	4.96	--		2.912
1,2-Dibromoethane	ND	0.582	--	ND	4.47	--		2.912
Tetrachloroethene	7.33	0.582	--	49.7	3.95	--		2.912
Chlorobenzene	ND	0.582	--	ND	2.68	--		2.912
Ethylbenzene	2.81	0.582	--	12.2	2.53	--		2.912
p/m-Xylene	11.2	1.16	--	48.6	5.04	--		2.912
Bromoform	ND	0.582	--	ND	6.02	--		2.912



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-06 D  
 Client ID: SV-8 DUPLICATE  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:18  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.582	--	ND	2.48	--		2.912
1,1,2,2-Tetrachloroethane	ND	0.582	--	ND	4.00	--		2.912
o-Xylene	3.52	0.582	--	15.3	2.53	--		2.912
4-Ethyltoluene	1.34	0.582	--	6.59	2.86	--		2.912
1,3,5-Trimethybenzene	1.40	0.582	--	6.88	2.86	--		2.912
1,2,4-Trimethylbenzene	5.12	0.582	--	25.2	2.86	--		2.912
Benzyl chloride	ND	0.582	--	ND	3.01	--		2.912
1,3-Dichlorobenzene	ND	0.582	--	ND	3.50	--		2.912
1,4-Dichlorobenzene	ND	0.582	--	ND	3.50	--		2.912
1,2-Dichlorobenzene	ND	0.582	--	ND	3.50	--		2.912
1,2,4-Trichlorobenzene	ND	0.582	--	ND	4.32	--		2.912
Hexachlorobutadiene	ND	0.582	--	ND	6.21	--		2.912

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	95		60-140



**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307128-07 D  
**Client ID:** SV-10  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15  
**Analytical Date:** 04/25/13 02:07  
**Analyst:** RY

**Date Collected:** 04/19/13 14:33  
**Date Received:** 04/22/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	18.1	6.84	--	31.2	11.8	--		13.67
Dichlorodifluoromethane	174	2.73	--	860	13.5	--		13.67
Chloromethane	ND	2.73	--	ND	5.64	--		13.67
Freon-114	ND	2.73	--	ND	19.1	--		13.67
Vinyl chloride	ND	2.73	--	ND	6.98	--		13.67
1,3-Butadiene	ND	2.73	--	ND	6.04	--		13.67
Bromomethane	ND	2.73	--	ND	10.6	--		13.67
Chloroethane	ND	2.73	--	ND	7.20	--		13.67
Ethanol	ND	34.2	--	ND	64.4	--		13.67
Vinyl bromide	ND	2.73	--	ND	11.9	--		13.67
Acetone	ND	13.7	--	ND	32.5	--		13.67
Trichlorofluoromethane	1180	2.73	--	6630	15.3	--		13.67
Isopropanol	ND	6.84	--	ND	16.8	--		13.67
1,1-Dichloroethene	ND	2.73	--	ND	10.8	--		13.67
Methylene chloride	ND	13.7	--	ND	47.6	--		13.67
3-Chloropropene	ND	2.73	--	ND	8.55	--		13.67
Carbon disulfide	ND	2.73	--	ND	8.50	--		13.67
Freon-113	ND	2.73	--	ND	20.9	--		13.67
trans-1,2-Dichloroethene	ND	2.73	--	ND	10.8	--		13.67
1,1-Dichloroethane	ND	2.73	--	ND	11.0	--		13.67
Methyl tert butyl ether	ND	2.73	--	ND	9.84	--		13.67
Vinyl acetate	ND	2.73	--	ND	9.61	--		13.67
2-Butanone	ND	2.73	--	ND	8.05	--		13.67
cis-1,2-Dichloroethene	ND	2.73	--	ND	10.8	--		13.67



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-07 D  
 Client ID: SV-10  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:33  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	6.84	--	ND	24.6	--		13.67
Chloroform	ND	2.73	--	ND	13.3	--		13.67
Tetrahydrofuran	ND	2.73	--	ND	8.05	--		13.67
1,2-Dichloroethane	ND	2.73	--	ND	11.0	--		13.67
n-Hexane	3.66	2.73	--	12.9	9.62	--		13.67
1,1,1-Trichloroethane	ND	2.73	--	ND	14.9	--		13.67
Benzene	3.43	2.73	--	11.0	8.72	--		13.67
Carbon tetrachloride	ND	2.73	--	ND	17.2	--		13.67
Cyclohexane	ND	2.73	--	ND	9.40	--		13.67
1,2-Dichloropropane	ND	2.73	--	ND	12.6	--		13.67
Bromodichloromethane	ND	2.73	--	ND	18.3	--		13.67
1,4-Dioxane	ND	2.73	--	ND	9.84	--		13.67
Trichloroethene	ND	2.73	--	ND	14.7	--		13.67
2,2,4-Trimethylpentane	ND	2.73	--	ND	12.8	--		13.67
Heptane	ND	2.73	--	ND	11.2	--		13.67
cis-1,3-Dichloropropene	ND	2.73	--	ND	12.4	--		13.67
4-Methyl-2-pentanone	ND	2.73	--	ND	11.2	--		13.67
trans-1,3-Dichloropropene	ND	2.73	--	ND	12.4	--		13.67
1,1,2-Trichloroethane	ND	2.73	--	ND	14.9	--		13.67
Toluene	ND	2.73	--	ND	10.3	--		13.67
2-Hexanone	ND	2.73	--	ND	11.2	--		13.67
Dibromochloromethane	ND	2.73	--	ND	23.3	--		13.67
1,2-Dibromoethane	ND	2.73	--	ND	21.0	--		13.67
Tetrachloroethene	6.86	2.73	--	46.5	18.5	--		13.67
Chlorobenzene	ND	2.73	--	ND	12.6	--		13.67
Ethylbenzene	ND	2.73	--	ND	11.9	--		13.67
p/m-Xylene	ND	5.47	--	ND	23.8	--		13.67
Bromoform	ND	2.73	--	ND	28.2	--		13.67



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-07 D  
 Client ID: SV-10  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:33  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	2.73	--	ND	11.6	--		13.67
1,1,2,2-Tetrachloroethane	ND	2.73	--	ND	18.7	--		13.67
o-Xylene	ND	2.73	--	ND	11.9	--		13.67
4-Ethyltoluene	ND	2.73	--	ND	13.4	--		13.67
1,3,5-Trimethybenzene	ND	2.73	--	ND	13.4	--		13.67
1,2,4-Trimethylbenzene	ND	2.73	--	ND	13.4	--		13.67
Benzyl chloride	ND	2.73	--	ND	14.1	--		13.67
1,3-Dichlorobenzene	ND	2.73	--	ND	16.4	--		13.67
1,4-Dichlorobenzene	ND	2.73	--	ND	16.4	--		13.67
1,2-Dichlorobenzene	ND	2.73	--	ND	16.4	--		13.67
1,2,4-Trichlorobenzene	ND	2.73	--	ND	20.3	--		13.67
Hexachlorobutadiene	ND	2.73	--	ND	29.1	--		13.67

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	90		60-140





**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307128-08 D  
**Client ID:** SV-11  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15  
**Analytical Date:** 04/25/13 02:38  
**Analyst:** RY

**Date Collected:** 04/19/13 14:39  
**Date Received:** 04/22/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	ND	1.35	--	ND	2.32	--		2.694
Dichlorodifluoromethane	11.0	0.539	--	54.4	2.67	--		2.694
Chloromethane	ND	0.539	--	ND	1.11	--		2.694
Freon-114	ND	0.539	--	ND	3.77	--		2.694
Vinyl chloride	ND	0.539	--	ND	1.38	--		2.694
1,3-Butadiene	ND	0.539	--	ND	1.19	--		2.694
Bromomethane	ND	0.539	--	ND	2.09	--		2.694
Chloroethane	ND	0.539	--	ND	1.42	--		2.694
Ethanol	ND	6.74	--	ND	12.7	--		2.694
Vinyl bromide	ND	0.539	--	ND	2.36	--		2.694
Acetone	ND	2.69	--	ND	6.39	--		2.694
Trichlorofluoromethane	48.2	0.539	--	271	3.03	--		2.694
Isopropanol	ND	1.35	--	ND	3.32	--		2.694
1,1-Dichloroethene	ND	0.539	--	ND	2.14	--		2.694
Methylene chloride	ND	2.69	--	ND	9.35	--		2.694
3-Chloropropene	ND	0.539	--	ND	1.69	--		2.694
Carbon disulfide	ND	0.539	--	ND	1.68	--		2.694
Freon-113	ND	0.539	--	ND	4.13	--		2.694
trans-1,2-Dichloroethene	ND	0.539	--	ND	2.14	--		2.694
1,1-Dichloroethane	ND	0.539	--	ND	2.18	--		2.694
Methyl tert butyl ether	ND	0.539	--	ND	1.94	--		2.694
Vinyl acetate	ND	0.539	--	ND	1.90	--		2.694
2-Butanone	0.811	0.539	--	2.39	1.59	--		2.694
cis-1,2-Dichloroethene	ND	0.539	--	ND	2.14	--		2.694



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-08 D  
 Client ID: SV-11  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:39  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.35	--	ND	4.86	--		2.694
Chloroform	ND	0.539	--	ND	2.63	--		2.694
Tetrahydrofuran	ND	0.539	--	ND	1.59	--		2.694
1,2-Dichloroethane	ND	0.539	--	ND	2.18	--		2.694
n-Hexane	ND	0.539	--	ND	1.90	--		2.694
1,1,1-Trichloroethane	2.59	0.539	--	14.1	2.94	--		2.694
Benzene	1.56	0.539	--	4.98	1.72	--		2.694
Carbon tetrachloride	ND	0.539	--	ND	3.39	--		2.694
Cyclohexane	ND	0.539	--	ND	1.86	--		2.694
1,2-Dichloropropane	ND	0.539	--	ND	2.49	--		2.694
Bromodichloromethane	ND	0.539	--	ND	3.61	--		2.694
1,4-Dioxane	ND	0.539	--	ND	1.94	--		2.694
Trichloroethene	2.62	0.539	--	14.1	2.90	--		2.694
2,2,4-Trimethylpentane	ND	0.539	--	ND	2.52	--		2.694
Heptane	ND	0.539	--	ND	2.21	--		2.694
cis-1,3-Dichloropropene	ND	0.539	--	ND	2.45	--		2.694
4-Methyl-2-pentanone	ND	0.539	--	ND	2.21	--		2.694
trans-1,3-Dichloropropene	ND	0.539	--	ND	2.45	--		2.694
1,1,2-Trichloroethane	ND	0.539	--	ND	2.94	--		2.694
Toluene	1.42	0.539	--	5.35	2.03	--		2.694
2-Hexanone	ND	0.539	--	ND	2.21	--		2.694
Dibromochloromethane	ND	0.539	--	ND	4.59	--		2.694
1,2-Dibromoethane	ND	0.539	--	ND	4.14	--		2.694
Tetrachloroethene	3.51	0.539	--	23.8	3.66	--		2.694
Chlorobenzene	ND	0.539	--	ND	2.48	--		2.694
Ethylbenzene	ND	0.539	--	ND	2.34	--		2.694
p/m-Xylene	2.08	1.08	--	9.03	4.69	--		2.694
Bromoform	ND	0.539	--	ND	5.57	--		2.694



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-08 D  
 Client ID: SV-11  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:39  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.539	--	ND	2.29	--		2.694
1,1,2,2-Tetrachloroethane	ND	0.539	--	ND	3.70	--		2.694
o-Xylene	0.867	0.539	--	3.77	2.34	--		2.694
4-Ethyltoluene	0.558	0.539	--	2.74	2.65	--		2.694
1,3,5-Trimethybenzene	0.628	0.539	--	3.09	2.65	--		2.694
1,2,4-Trimethylbenzene	2.66	0.539	--	13.1	2.65	--		2.694
Benzyl chloride	ND	0.539	--	ND	2.79	--		2.694
1,3-Dichlorobenzene	ND	0.539	--	ND	3.24	--		2.694
1,4-Dichlorobenzene	ND	0.539	--	ND	3.24	--		2.694
1,2-Dichlorobenzene	ND	0.539	--	ND	3.24	--		2.694
1,2,4-Trichlorobenzene	ND	0.539	--	ND	4.00	--		2.694
Hexachlorobutadiene	ND	0.539	--	ND	5.75	--		2.694

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	95		60-140



**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13**SAMPLE RESULTS**

**Lab ID:** L1307128-09 D  
**Client ID:** SV-12  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Soil\_Vapor  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 04/25/13 03:09  
**Analyst:** RY

**Date Collected:** 04/19/13 14:45  
**Date Received:** 04/22/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	26.3	1.43	--	45.3	2.46	--		2.856
Dichlorodifluoromethane	2.23	0.571	--	11.0	2.82	--		2.856
Chloromethane	ND	0.571	--	ND	1.18	--		2.856
Freon-114	ND	0.571	--	ND	3.99	--		2.856
Vinyl chloride	2.22	0.571	--	5.67	1.46	--		2.856
1,3-Butadiene	1.71	0.571	--	3.78	1.26	--		2.856
Bromomethane	ND	0.571	--	ND	2.22	--		2.856
Chloroethane	ND	0.571	--	ND	1.51	--		2.856
Ethanol	12.4	7.14	--	23.4	13.5	--		2.856
Vinyl bromide	ND	0.571	--	ND	2.50	--		2.856
Acetone	19.9	2.86	--	47.3	6.79	--		2.856
Trichlorofluoromethane	11.2	0.571	--	62.9	3.21	--		2.856
Isopropanol	ND	1.43	--	ND	3.52	--		2.856
1,1-Dichloroethene	ND	0.571	--	ND	2.26	--		2.856
Methylene chloride	2.92	2.86	--	10.1	9.94	--		2.856
3-Chloropropene	ND	0.571	--	ND	1.79	--		2.856
Carbon disulfide	29.2	0.571	--	90.9	1.78	--		2.856
Freon-113	ND	0.571	--	ND	4.38	--		2.856
trans-1,2-Dichloroethene	ND	0.571	--	ND	2.26	--		2.856
1,1-Dichloroethane	1.35	0.571	--	5.46	2.31	--		2.856
Methyl tert butyl ether	ND	0.571	--	ND	2.06	--		2.856
Vinyl acetate	ND	0.571	--	ND	2.01	--		2.856
2-Butanone	3.84	0.571	--	11.3	1.68	--		2.856
cis-1,2-Dichloroethene	2.20	0.571	--	8.72	2.26	--		2.856



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-09 D  
 Client ID: SV-12  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:45  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.43	--	ND	5.15	--		2.856
Chloroform	0.771	0.571	--	3.77	2.79	--		2.856
Tetrahydrofuran	ND	0.571	--	ND	1.68	--		2.856
1,2-Dichloroethane	ND	0.571	--	ND	2.31	--		2.856
n-Hexane	15.3	0.571	--	53.9	2.01	--		2.856
1,1,1-Trichloroethane	3.51	0.571	--	19.2	3.12	--		2.856
Benzene	6.11	0.571	--	19.5	1.82	--		2.856
Carbon tetrachloride	ND	0.571	--	ND	3.59	--		2.856
Cyclohexane	1.80	0.571	--	6.20	1.97	--		2.856
1,2-Dichloropropane	ND	0.571	--	ND	2.64	--		2.856
Bromodichloromethane	ND	0.571	--	ND	3.83	--		2.856
1,4-Dioxane	ND	0.571	--	ND	2.06	--		2.856
Trichloroethene	10.9	0.571	--	58.6	3.07	--		2.856
2,2,4-Trimethylpentane	3.15	0.571	--	14.7	2.67	--		2.856
Heptane	7.21	0.571	--	29.5	2.34	--		2.856
cis-1,3-Dichloropropene	ND	0.571	--	ND	2.59	--		2.856
4-Methyl-2-pentanone	ND	0.571	--	ND	2.34	--		2.856
trans-1,3-Dichloropropene	ND	0.571	--	ND	2.59	--		2.856
1,1,2-Trichloroethane	ND	0.571	--	ND	3.12	--		2.856
Toluene	5.91	0.571	--	22.3	2.15	--		2.856
2-Hexanone	ND	0.571	--	ND	2.34	--		2.856
Dibromochloromethane	ND	0.571	--	ND	4.86	--		2.856
1,2-Dibromoethane	ND	0.571	--	ND	4.39	--		2.856
Tetrachloroethene	22.5	0.571	--	153	3.87	--		2.856
Chlorobenzene	ND	0.571	--	ND	2.63	--		2.856
Ethylbenzene	1.71	0.571	--	7.43	2.48	--		2.856
p/m-Xylene	4.75	1.14	--	20.6	4.95	--		2.856
Bromoform	ND	0.571	--	ND	5.90	--		2.856



**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**SAMPLE RESULTS**

Lab ID: L1307128-09 D  
 Client ID: SV-12  
 Sample Location: 514 W. 27TH ST NYC

Date Collected: 04/19/13 14:45  
 Date Received: 04/22/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.571	--	ND	2.43	--		2.856
1,1,2,2-Tetrachloroethane	ND	0.571	--	ND	3.92	--		2.856
o-Xylene	2.50	0.571	--	10.9	2.48	--		2.856
4-Ethyltoluene	0.714	0.571	--	3.51	2.81	--		2.856
1,3,5-Trimethybenzene	0.691	0.571	--	3.40	2.81	--		2.856
1,2,4-Trimethylbenzene	2.56	0.571	--	12.6	2.81	--		2.856
Benzyl chloride	ND	0.571	--	ND	2.96	--		2.856
1,3-Dichlorobenzene	ND	0.571	--	ND	3.43	--		2.856
1,4-Dichlorobenzene	ND	0.571	--	ND	3.43	--		2.856
1,2-Dichlorobenzene	ND	0.571	--	ND	3.43	--		2.856
1,2,4-Trichlorobenzene	ND	0.571	--	ND	4.24	--		2.856
Hexachlorobutadiene	ND	0.571	--	ND	6.09	--		2.856

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	99		60-140



Project Name: 514 W. 27TH ST NYC

Lab Number: L1307128

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/24/13 18:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG603791-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1



Project Name: 514 W. 27TH ST NYC

Lab Number: L1307128

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/24/13 18:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG603791-4								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: 514 W. 27TH ST NYC

Lab Number: L1307128

Project Number: E040

Report Date: 04/29/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/24/13 18:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG603791-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST NYC

Project Number: E040

Lab Number: L1307128

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG603791-3								
Propylene	74		-		70-130	-		
Dichlorodifluoromethane	96		-		70-130	-		
Chloromethane	92		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	104		-		70-130	-		
Vinyl chloride	98		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Bromomethane	102		-		70-130	-		
Chloroethane	107		-		70-130	-		
Ethyl Alcohol	90		-		70-130	-		
Vinyl bromide	100		-		70-130	-		
Acetone	100		-		70-130	-		
Trichlorofluoromethane	112		-		70-130	-		
iso-Propyl Alcohol	93		-		70-130	-		
1,1-Dichloroethene	99		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	129		-		70-130	-		
Carbon disulfide	98		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		-		70-130	-		
trans-1,2-Dichloroethene	92		-		70-130	-		
1,1-Dichloroethane	102		-		70-130	-		
Methyl tert butyl ether	102		-		70-130	-		

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST NYC

Project Number: E040

Lab Number: L1307128

Report Date: 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG603791-3								
Vinyl acetate	104		-		70-130	-		
2-Butanone	91		-		70-130	-		
cis-1,2-Dichloroethene	116		-		70-130	-		
Ethyl Acetate	98		-		70-130	-		
Chloroform	114		-		70-130	-		
Tetrahydrofuran	103		-		70-130	-		
1,2-Dichloroethane	116		-		70-130	-		
n-Hexane	81		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
Benzene	91		-		70-130	-		
Carbon tetrachloride	112		-		70-130	-		
Cyclohexane	88		-		70-130	-		
1,2-Dichloropropane	77		-		70-130	-		
Bromodichloromethane	83		-		70-130	-		
1,4-Dioxane	78		-		70-130	-		
Trichloroethene	87		-		70-130	-		
2,2,4-Trimethylpentane	75		-		70-130	-		
Heptane	71		-		70-130	-		
cis-1,3-Dichloropropene	83		-		70-130	-		
4-Methyl-2-pentanone	73		-		70-130	-		
trans-1,3-Dichloropropene	72		-		70-130	-		

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W. 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307128

**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG603791-3								
1,1,2-Trichloroethane	80		-		70-130	-		
Toluene	96		-		70-130	-		
2-Hexanone	94		-		70-130	-		
Dibromochloromethane	105		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		
Tetrachloroethene	107		-		70-130	-		
Chlorobenzene	99		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	98		-		70-130	-		
Styrene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	95		-		70-130	-		
o-Xylene	102		-		70-130	-		
4-Ethyltoluene	95		-		70-130	-		
1,3,5-Trimethylbenzene	104		-		70-130	-		
1,2,4-Trimethylbenzene	112		-		70-130	-		
Benzyl chloride	86		-		70-130	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	99		-		70-130	-		
1,2-Dichlorobenzene	99		-		70-130	-		
1,2,4-Trichlorobenzene	110		-		70-130	-		

**Lab Control Sample Analysis**  
Batch Quality Control**Project Name:** 514 W. 27TH ST NYC**Project Number:** E040**Lab Number:** L1307128**Report Date:** 04/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG603791-3								
Hexachlorobutadiene	115		-		70-130	-		

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST NYC

Project Number: E040

Lab Number: L1307128

Report Date: 04/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG603791-5 QC Sample: L1307130-05 Client ID: DUP Sample						
Propylene	ND	1.54	ppbV	NC		25
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	12.9	16.0	ppbV	21		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	154	180	ppbV	16		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	1.12	1.26	ppbV	12		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

# Lab Duplicate Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307128  
**Report Date:** 04/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG603791-5 QC Sample: L1307130-05 Client ID: DUP Sample					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
Vinyl acetate	ND	ND	ppbV	NC	25
2-Butanone	1.67	1.70	ppbV	2	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	0.590	0.595	ppbV	1	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	14.7	14.0	ppbV	5	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	21.0	21.0	ppbV	0	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	1.90	1.86	ppbV	2	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Lab Number:** L1307128  
**Report Date:** 04/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG603791-5 QC Sample: L1307130-05 Client ID: DUP Sample					
Heptane	8.00	7.98	ppbV	0	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	106	113	ppbV	6	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	0.915	0.942	ppbV	3	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	4.95	5.09	ppbV	3	25
p/m-Xylene	14.2	14.6	ppbV	3	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	3.88	4.13	ppbV	6	25
4-Ethyltoluene	0.598	0.680	ppbV	13	25
1,3,5-Trimethylbenzene	0.708	0.830	ppbV	16	25



# Lab Duplicate Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307128

**Report Date:** 04/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG603791-5 QC Sample: L1307130-05 Client ID: DUP Sample					
1,2,4-Trimethylbenzene	2.32	2.70	ppbV	15	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: 514 W. 27TH ST NYC

Serial\_No:04291316:07  
Lab Number: L1307128

Project Number: E040

Report Date: 04/29/13

### Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1307128-01	AMBIENT AIR	0183	#20 AMB	04/17/13	87655		-	-	-	Pass	10.0	10.5	5
L1307128-01	AMBIENT AIR	1556	6.0L Can	04/17/13	87655	L1306486-01	Pass	-29.8	-15.0	-	-	-	-
L1307128-02	SV-7	0124	#20 SV	04/17/13	87655		-	-	-	Pass	6.7	6.7	0
L1307128-02	SV-7	881	1.0L Can	04/17/13	87655	L1304726-02	Pass	-29.6	-7.5	-	-	-	-
L1307128-03	SV-6	0235	#20 SV	04/17/13	87655		-	-	-	Pass	6.3	7.8	21
L1307128-03	SV-6	1504	1.0L Can	04/17/13	87655	L1304726-02	Pass	-29.6	-6.9	-	-	-	-
L1307128-04	SV-9	0172	#16 SV	03/19/13	87655		-	-	-	Pass	6.5	6.8	5
L1307128-04	SV-9	698	1.0L Can	04/17/13	87655	L1304726-02	Pass	-29.5	-7.0	-	-	-	-
L1307128-05	SV-8	0194	#16 SV	04/17/13	87655		-	-	-	Pass	6.7	7.1	6
L1307128-05	SV-8	741	1.0L Can	04/17/13	87655	L1304726-02	Pass	-29.2	-6.3	-	-	-	-
L1307128-06	SV-8 DUPLICATE	0224	#16 AMB	04/17/13	87655		-	-	-	Pass	6.3	6.1	3
L1307128-06	SV-8 DUPLICATE	722	1.0L Can	04/17/13	87655	L1304726-02	Pass	-29.5	-8.6	-	-	-	-
L1307128-07	SV-10	0542	#16 SV	04/17/13	87655		-	-	-	Pass	6.7	6.8	1
L1307128-07	SV-10	1495	1.0L Can	04/17/13	87655	L1304726-02	Pass	-29.6	-7.1	-	-	-	-
L1307128-08	SV-11	0257	#20 SV	04/17/13	87655		-	-	-	Pass	6.3	7.4	16

**Project Name:** 514 W. 27TH ST NYC

**Project Number:** E040

Serial\_No:04291316:07  
**Lab Number:** L1307128

**Report Date:** 04/29/13

**Canister and Flow Controller Information**

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1307128-08	SV-11	829	1.0L Can	04/17/13	87655	L1305486-02	Pass	-29.6	-6.6	-	-	-	-
L1307128-09	SV-12	0101	#20 AMB	04/17/13	87655		-	-	-	Pass	6.3	7.0	11
L1307128-09	SV-12	845	1.0L Can	04/17/13	87655	L1304726-02	Pass	-29.6	-8.3	-	-	-	-

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1304726  
**Report Date:** 04/29/13

### Air Canister Certification Results

**Lab ID:** L1304726-02  
**Client ID:** CAN 1504 SHELF #8  
**Sample Location:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 03/21/13 19:25  
**Analyst:** RY

**Date Collected:** 03/21/13 10:32  
**Date Received:** 03/21/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1304726  
**Report Date:** 04/29/13

### Air Canister Certification Results

**Lab ID:** L1304726-02  
**Client ID:** CAN 1504 SHELF #8  
**Sample Location:**

**Date Collected:** 03/21/13 10:32  
**Date Received:** 03/21/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1304726  
**Report Date:** 04/29/13

### Air Canister Certification Results

Lab ID: L1304726-02  
 Client ID: CAN 1504 SHELF #8  
 Sample Location:

Date Collected: 03/21/13 10:32  
 Date Received: 03/21/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1304726  
**Report Date:** 04/29/13

### Air Canister Certification Results

Lab ID: L1304726-02  
 Client ID: CAN 1504 SHELF #8  
 Sample Location:

Date Collected: 03/21/13 10:32  
 Date Received: 03/21/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1304726**Project Number:** CANISTER QC BAT**Report Date:** 04/29/13**Air Canister Certification Results**

Lab ID: L1304726-02

Date Collected: 03/21/13 10:32

Client ID: CAN 1504 SHELF #8

Date Received: 03/21/13

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1304726  
**Report Date:** 04/29/13

### Air Canister Certification Results

Lab ID: L1304726-02  
 Client ID: CAN 1504 SHELF #8  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/21/13 19:25  
 Analyst: RY

Date Collected: 03/21/13 10:32  
 Date Received: 03/21/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1304726  
**Report Date:** 04/29/13

### Air Canister Certification Results

**Lab ID:** L1304726-02  
**Client ID:** CAN 1504 SHELF #8  
**Sample Location:**

**Date Collected:** 03/21/13 10:32  
**Date Received:** 03/21/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1304726**Project Number:** CANISTER QC BAT**Report Date:** 04/29/13**Air Canister Certification Results**

Lab ID: L1304726-02

Date Collected: 03/21/13 10:32

Client ID: CAN 1504 SHELF #8

Date Received: 03/21/13

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	97		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1305486  
**Report Date:** 04/29/13

### Air Canister Certification Results

**Lab ID:** L1305486-02  
**Client ID:** CAN 829 SHELF #7  
**Sample Location:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 04/02/13 18:35  
**Analyst:** MB

**Date Collected:** 04/01/13 14:45  
**Date Received:** 04/02/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1305486  
**Report Date:** 04/29/13

### Air Canister Certification Results

Lab ID: L1305486-02  
 Client ID: CAN 829 SHELF #7  
 Sample Location:

Date Collected: 04/01/13 14:45  
 Date Received: 04/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1305486  
**Report Date:** 04/29/13

### Air Canister Certification Results

**Lab ID:** L1305486-02  
**Client ID:** CAN 829 SHELF #7  
**Sample Location:**

**Date Collected:** 04/01/13 14:45  
**Date Received:** 04/02/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1305486  
**Report Date:** 04/29/13

### Air Canister Certification Results

**Lab ID:** L1305486-02  
**Client ID:** CAN 829 SHELF #7  
**Sample Location:**

**Date Collected:** 04/01/13 14:45  
**Date Received:** 04/02/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				



**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1305486**Project Number:** CANISTER QC BAT**Report Date:** 04/29/13**Air Canister Certification Results**

Lab ID: L1305486-02

Date Collected: 04/01/13 14:45

Client ID: CAN 829 SHELF #7

Date Received: 04/02/13

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	83		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1305486  
**Report Date:** 04/29/13

### Air Canister Certification Results

Lab ID: L1305486-02  
 Client ID: CAN 829 SHELF #7  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/02/13 18:35  
 Analyst: MB

Date Collected: 04/01/13 14:45  
 Date Received: 04/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1305486  
**Report Date:** 04/29/13

### Air Canister Certification Results

Lab ID: L1305486-02  
 Client ID: CAN 829 SHELF #7  
 Sample Location:

Date Collected: 04/01/13 14:45  
 Date Received: 04/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1305486**Project Number:** CANISTER QC BAT**Report Date:** 04/29/13**Air Canister Certification Results**

Lab ID: L1305486-02

Date Collected: 04/01/13 14:45

Client ID: CAN 829 SHELF #7

Date Received: 04/02/13

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	84		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	85		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1306486  
**Report Date:** 04/29/13

### Air Canister Certification Results

**Lab ID:** L1306486-01  
**Client ID:** CAN 697 SHELF #53  
**Sample Location:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 04/12/13 17:27  
**Analyst:** MB

**Date Collected:** 04/12/13 08:49  
**Date Received:** 04/12/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1306486  
**Report Date:** 04/29/13

### Air Canister Certification Results

Lab ID: L1306486-01  
 Client ID: CAN 697 SHELF #53  
 Sample Location:

Date Collected: 04/12/13 08:49  
 Date Received: 04/12/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1



**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1306486**Project Number:** CANISTER QC BAT**Report Date:** 04/29/13**Air Canister Certification Results**

Lab ID: L1306486-01

Date Collected: 04/12/13 08:49

Client ID: CAN 697 SHELF #53

Date Received: 04/12/13

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1306486  
**Report Date:** 04/29/13

### Air Canister Certification Results

**Lab ID:** L1306486-01  
**Client ID:** CAN 697 SHELF #53  
**Sample Location:**

**Date Collected:** 04/12/13 08:49  
**Date Received:** 04/12/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				



**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1306486**Project Number:** CANISTER QC BAT**Report Date:** 04/29/13**Air Canister Certification Results**

Lab ID: L1306486-01

Date Collected: 04/12/13 08:49

Client ID: CAN 697 SHELF #53

Date Received: 04/12/13

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	110		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	108		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1306486  
**Report Date:** 04/29/13

### Air Canister Certification Results

**Lab ID:** L1306486-01  
**Client ID:** CAN 697 SHELF #53  
**Sample Location:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 04/12/13 17:09  
**Analyst:** RY

**Date Collected:** 04/12/13 08:49  
**Date Received:** 04/12/13  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1306486  
**Report Date:** 04/29/13

### Air Canister Certification Results

Lab ID: L1306486-01  
 Client ID: CAN 697 SHELF #53  
 Sample Location:

Date Collected: 04/12/13 08:49  
 Date Received: 04/12/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1306486  
**Report Date:** 04/29/13

### Air Canister Certification Results

Lab ID: L1306486-01  
 Client ID: CAN 697 SHELF #53  
 Sample Location:

Date Collected: 04/12/13 08:49  
 Date Received: 04/12/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	107		60-140

**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307128**Project Number:** E040**Report Date:** 04/29/13**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Reagent H2O Preserved Vials Frozen on:** NA**Cooler Information Custody Seal****Cooler**

N/A Present/Intact

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307128-01A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1307128-02A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1307128-03A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1307128-04A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1307128-05A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1307128-06A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1307128-07A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1307128-08A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1307128-09A	Canister - 1 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)

\*Values in parentheses indicate holding time in days

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307128  
**Report Date:** 04/29/13

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

**Report Format:** Data Usability Report



**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307128  
**Report Date:** 04/29/13

**Data Qualifiers**

due to obvious interference.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307128  
**Report Date:** 04/29/13

## REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certificate/Approval Program Summary

Last revised August 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### **Connecticut Department of Public Health Certificate/Lab ID: PH-0141.**

*Wastewater/Non-Potable Water* (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

*Solid Waste/Soil* (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

### **Florida Department of Health Certificate/Lab ID: E87814. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

*Solid & Chemical Materials* (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

*Air & Emissions* (EPA TO-15.)

### **Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

*Biological Tissue* (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

*Air & Emissions* (EPA TO-15.)

### **New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B, 3020A, . Organic Parameters: EPA 3510C, 3630C, 3640A, 3660B, 8081B, 8082A, 8270C, 8270D, 8015D.)

*Solid & Chemical Materials* (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 6020A, 7471B, 9040B, 9045C. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

### **New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)



*Solid & Chemical Materials* (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9045D, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

*Atmospheric Organic Parameters* (EPA 3C, TO-15, TO-10A, TO-13A-SIM.)

*Biological Tissue* (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

**New York Department of Health** Certificate/Lab ID: 11627. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 6020A, 7471B, 7474, 9040C, 9045D. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

*Air & Emissions* (EPA TO-15, TO-10A.)

**Pennsylvania** Certificate/Lab ID: 68-02089 **NELAP Accredited**

*Non-Potable Water* (Inorganic Parameters: 1312, 1631E, 180.1, 3020A, 6020A, 7470A, 9040B, 9050A, 2320B, 2540D, 2540G, SM4500H+-B. Organic Parameters: 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 3051A, 6020A, 7471B, 7474 9040B, 9045C, 9060. Organic Parameters: EPA3050B, 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8270D, 8081B, 8015D, 8082A.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00299. **NELAP Accredited via NJ-DEP.**

Refer to NJ-DEP Certificate for Non-Potable Water.

**Texas Commission of Environmental Quality** Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited.**

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

*Air* (Organic Parameters: EPA TO-15)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID:460194. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters:EPA 3020A, 6020A, 245.7, 9040B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B, 8015D.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

**Washington State Department of Ecology** Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015, 8270.)

**U.S. Army Corps of Engineers**

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.01.

*Non-Potable Water* (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.)

*Air & Emissions* (EPA TO-15.)

**Analytes Not Accredited by NELAP**

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl. **TO-15**: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.



## CHAIN OF CUSTODY

## AIR ANALYSIS

PAGE 1 OF 1

320 Forbes Blvd, Mansfield, MA 02048  
TEL: 508-822-9300 FAX: 508-822-3288

## Client Information

Client: INTEGRAL CONSULTING  
Address: 267 BROADWAY 5TH FL  
New York, NY 10007

Phone: (212) 962-4301

Fax: (212) 962-4302

Email: ACARROLL@INTEGRAL-CORP.COM

☐ These samples have been previously analyzed by Alpha

## Project Information

Project Name: 514 W. 27TH ST NYC

Project Location: 514 W. 27TH ST NYC

Project #: E040

Project Manager: ALANA CARROLL

ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 4/29/13 Time:

Date Rec'd in Lab: 4/22/13

## Report Information - Data Deliverables

☐ FAX

☒ ADEx

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

☒ EMAIL (standard pdf report)

☐ Additional Deliverables:

Report to: (if different than Project Manager)

ALPHA Job #: L1307128

## Billing Information

☒ Same as Client info PO #:

## Regulatory Requirements/Report Limits

State/Fed Program Criteria

NY

DEC/DOH

## ANALYSIS

## All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection										TO-14	TO-15	TO-15	APH	FIXED	TO-13	TO-4	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller								
07128-01	Ambient Air	4/19/13	1044	1345	-30.19	14.84	AA	JLH	6L	15560	183	✓							
-02	SV-7	4/19/13	1129	1329	-30.32	-7.16	SV	JLH	1L	881	0124	✓							
-03	SV-6	4/19/13	1141	1341	-30.75	-6.45	SV	JLH	1L	1504	0235	✓							
-04	SV-9	4/19/13	1152	1352	-29.83	-6.60	SV	JLH	1L	698	0172	✓							
-05	SV-8	4/19/13	1218	1418	-29.57	-5.85	SV	JLH	1L	741	0194	✓							
-06	SV-8 Duplicate	4/19/13	1218	1418	-29.18	-8.05	SV	JLH	1L	722	0224	✓							
-07	SV-10	4/19/13	1233	1433	-29.86	-6.62	SV	JLH	1L	1495	0542	✓							
-08	SV-11	4/19/13	1239	1439	-29.34	-6.23	SV	JLH	1L	829	0257	✓							
-09	SV-12	4/19/13	1245	1445	-29.80	-7.38	SV	JLH	1L	845	0101	✓							

## \*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)

SV = Soil Vapor/Landfill Gas/SVE

Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side

Relinquished By:

Date/Time

Received By:

Date/Time



## ANALYTICAL REPORT

Lab Number:	L1307221
Client:	Integral Consulting, Inc. 267 Broadway Fifth Floor New York, NY 10007
ATTN:	Alana Carroll
Phone:	(212) 962-4301
Project Name:	514 W. 27TH ST NYC
Project Number:	E040
Report Date:	04/30/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307221  
**Report Date:** 04/30/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1307221-01	MW-1_042313	514 W. 27TH ST NYC	04/23/13 15:45

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307221  
**Report Date:** 04/30/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307221  
**Report Date:** 04/30/13

### Case Narrative (continued)

#### Total Petroleum Hydrocarbons (TPH) by GC/FID

The sample was extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample is conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of 73 reference standards are also utilized to provide the best possible sample match. Quantitative determination of the sample hydrocarbon concentration is performed in accordance with EPA Method 8015M. The sample total hydrocarbon concentration and all associated quality control data are included in the report.

All quality control parameters met the specified criteria.

The following qualitative information is based on a tentative interpretation of chromatographic pattern recognition and boiling point ranges:

#### Total Petroleum Hydrocarbon Identification

Sample MW-1\_042313 (L1307221-01) contains hydrocarbons eluting in the range of n-Pentadecane (C15) to after the elution of n-Hexatriacontane (C36).

Based on the data generated sample, MW-1\_042313 (L1307221-01) contains material eluting in the mid to heavy molecular weight ranges of the chromatogram. The material appears to be similar in nature to lubricating, motor or synthetic oil like product.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Elizabeth Porta

Title: Technical Director/Representative

Date: 04/30/13

# ORGANICS



# **PETROLEUM HYDROCARBONS**

**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307221**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307221-01  
**Client ID:** MW-1\_042313  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Oil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 04/25/13 14:51  
**Analyst:** KL  
**Percent Solids:** Results reported on an 'AS RECEIVED' basis.

**Date Collected:** 04/23/13 15:45  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	10000	J	ug/kg	25000	480	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		70-130
4-Bromofluorobenzene	84		70-130

**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307221**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307221-01  
**Client ID:** MW-1\_042313  
**Sample Location:** 514 W. 27TH ST NYC  
**Matrix:** Oil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 04/26/13 04:54  
**Analyst:** DP  
**Percent Solids:** Results reported on an 'AS RECEIVED' basis.

**Date Collected:** 04/23/13 15:45  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3580A  
**Extraction Date:** 04/25/13 14:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	773000		mg/kg	6090	3050	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	97		50-130
d50-Tetracosane	97		50-130

**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307221**Project Number:** E040**Report Date:** 04/30/13**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
Analytical Date: 04/25/13 10:58  
Analyst: KL

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01 Batch: WG603912-3					
Gasoline Range Organics	ND		ug/kg	25000	480

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	93		70-130

Project Name: 514 W. 27TH ST NYC

Lab Number: L1307221

Project Number: E040

Report Date: 04/30/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8015D(M)  
 Analytical Date: 04/25/13 23:14  
 Analyst: DP

Extraction Method: EPA 3580A  
 Extraction Date: 04/25/13 14:07

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01 Batch: WG604029-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	6600	3300

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	98		50-130
d50-Tetracosane	95		50-130

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 514 W. 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307221

**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01 Batch: WG603912-1 WG603912-2								
Gasoline Range Organics	105		101		80-120	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	104		98		70-130
4-Bromofluorobenzene	100		95		70-130

Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01 Batch: WG604029-2 WG604029-3								
Nonane (C9)	99		98		50-130	1		30
Decane (C10)	99		98		50-130	1		30
Dodecane (C12)	97		96		50-130	1		30
Tetradecane (C14)	99		99		50-130	0		30
Hexadecane (C16)	100		100		50-130	0		30
Octadecane (C18)	106		106		50-130	0		30
Nonadecane (C19)	100		101		50-130	1		30
Eicosane (C20)	101		102		50-130	1		30
Docosane (C22)	100		102		50-130	2		30

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307221**Project Number:** E040**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01 Batch: WG604029-2 WG604029-3								
Tetracosane (C24)	100		103		50-130	3		30
Hexacosane (C26)	99		101		50-130	2		30
Octacosane (C28)	99		102		50-130	3		30
Triacontane (C30)	99		102		50-130	3		30
Hexatriacontane (C36)	95		98		50-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	98		98		50-130
d50-Tetracosane	93		95		50-130

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST NYC

Project Number: E040

Lab Number: L1307221

Report Date: 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603912-5 QC Sample: L1307221-01 Client ID: MW-1_042313												
Gasoline Range Organics	10000J	200000	190000	95		-	-		80-120	-		20

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,1,1-Trifluorotoluene	94				70-130
4-Bromofluorobenzene	89				70-130



# Lab Duplicate Analysis

## Batch Quality Control

Project Name: 514 W. 27TH ST NYC

Project Number: E040

Lab Number: L1307221

Report Date: 04/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01 QC Batch ID: WG603912-4 QC Sample: L1307221-01 Client ID: MW-1_042313						
Gasoline Range Organics	10000J	10000J	ug/kg	NC		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		88		70-130
4-Bromofluorobenzene	84		84		70-130

**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307221**Project Number:** E040**Report Date:** 04/30/13**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Reagent H2O Preserved Vials Frozen on:** NA**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307221-01A	Vial HCl preserved	A	N/A	3.6	Y	Absent	TPH-GRO(14)
L1307221-01B	Vial HCl preserved	A	N/A	3.6	Y	Absent	TPH-GRO(14)
L1307221-01C	Vial HCl preserved	NA	NA		Y	Absent	TPH-GRO(14)
L1307221-01D	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	TPH-GRO(14)
L1307221-01E	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	-

\*Values in parentheses indicate holding time in days

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307221  
**Report Date:** 04/30/13

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

**Report Format:** DU Report with "J" Qualifiers



**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307221  
**Report Date:** 04/30/13

**Data Qualifiers**

due to obvious interference.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers



**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307221  
**Report Date:** 04/30/13

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.  
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

*Drinking Water* (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; Colilert/QT SM9223B; MF-SM9222D.)

*Non-Potable Water (Inorganic Parameters:*, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

*Organic Parameters:* (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. *Microbiology Parameters:* (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

**New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. *Organic Parameters:* 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. *Organic Parameters:* SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. *Organic Parameters:* SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

**New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. *Organic Parameters:* EPA 332, 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. *Organic Parameters:* SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. *Organic Parameters:* SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

**New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

*Non-Potable Water (Inorganic Parameters:* SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. *Organic Parameters:* EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

*Solid & Hazardous Waste (Inorganic Parameters:* EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. *Organic Parameters:* EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

**North Carolina Department of the Environment and Natural Resources** Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO<sub>3</sub>-F, 353.2, 4500P-E, 4500SO<sub>4</sub>-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

**Pennsylvania Department of Environmental Protection** Certificate/Lab ID : 68-03671. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>-B, 4500NO<sub>3</sub>-F, 4500S-D, 4500SO<sub>3</sub>-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH<sub>3</sub>-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commission on Environmental Quality** Certificate/Lab ID: T104704476. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>B, 4500P-E, 4500 S<sup>2-</sup> D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID: 460195. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.

*Drinking Water* (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO<sub>3</sub>-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Page 21 of 36 *Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,



8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

**The following analytes are not included in our current NELAP/TNI Scope of Accreditation:**

**EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO<sub>2</sub> in a soil matrix, NO<sub>3</sub> in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

## Certificate/Approval Program Summary

Last revised August 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### **Connecticut Department of Public Health Certificate/Lab ID: PH-0141.**

*Wastewater/Non-Potable Water* (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

*Solid Waste/Soil* (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

### **Florida Department of Health Certificate/Lab ID: E87814. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

*Solid & Chemical Materials* (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

*Air & Emissions* (EPA TO-15.)

### **Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

*Biological Tissue* (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

*Air & Emissions* (EPA TO-15.)

### **New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B, 3020A, . Organic Parameters: EPA 3510C, 3630C, 3640A, 3660B, 8081B, 8082A, 8270C, 8270D, 8015D.)

*Solid & Chemical Materials* (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 6020A, 7471B, 9040B, 9045C. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

### **New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)

*Solid & Chemical Materials* (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9045D, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

*Atmospheric Organic Parameters* (EPA 3C, TO-15, TO-10A, TO-13A-SIM.)

*Biological Tissue* (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

**New York Department of Health** Certificate/Lab ID: 11627. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 6020A, 7471B, 7474, 9040C, 9045D. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

*Air & Emissions* (EPA TO-15, TO-10A.)

**Pennsylvania** Certificate/Lab ID: 68-02089 **NELAP Accredited**

*Non-Potable Water* (Inorganic Parameters: 1312, 1631E, 180.1, 3020A, 6020A, 7470A, 9040B, 9050A, 2320B, 2540D, 2540G, SM4500H+-B. Organic Parameters: 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 3051A, 6020A, 7471B, 7474 9040B, 9045C, 9060. Organic Parameters: EPA3050B, 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8270D, 8081B, 8015D, 8082A.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00299. **NELAP Accredited via NJ-DEP.**

Refer to NJ-DEP Certificate for Non-Potable Water.

**Texas Commission of Environmental Quality** Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited.**

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

*Air* (Organic Parameters: EPA TO-15)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID:460194. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters:EPA 3020A, 6020A, 245.7, 9040B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B, 8015D.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

**Washington State Department of Ecology** Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015, 8270.)

**U.S. Army Corps of Engineers**

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.01.

*Non-Potable Water* (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.)

*Air & Emissions* (EPA TO-15.)

**Analytes Not Accredited by NELAP**

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl. **TO-15**: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.



## PAGE

1 OF 1

**MANSFIELD, MA**  
**TEL: 508-822-9300**  
**FAX: 508-822-3288**

## Client Information

Email: ACARROLL@INTEGRAL-CORP.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

-Two (2) 100mL UNPRESERVED AMBER AND THREE (3) VIAL HCL PRESERVED COLLECTED

- HOLD UNTIL YOU RECEIVE CONTACT FROM A. CARROLL.

## Project Information

Project Name: 514 W. 27<sup>TH</sup> ST NYC

Project Location: 514 W. 27<sup>TH</sup> ST NYC

Project #: E040

Project Manager: Alana Carro

ALPHA Quote #:

### Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/20/12 Time:

Date Rec'd in Lab: 4/23/13

## Report Information - Data Deliverables

☐ FAX ☒ EMAIL  
☒ ADEx ☐ Add'l Deliverables

ALPHA Job #: L130722

### Billing Information

☐ Same as Client info      PO #:

## Regulatory Requirements/Report Limits

State /Fed Program	Criteria
--------------------	----------

## SAMPLE HANDLING

Filtration\_\_\_\_\_

☐ Done  
☐ Not needed  
☐ Lab to do  
*Preservation:*  
☐ Lab to do  
 (Please specify below)

### Sample Specific Comments

[illegible]

Container Type

Preservative

**Relinquished By:**

Date/Time

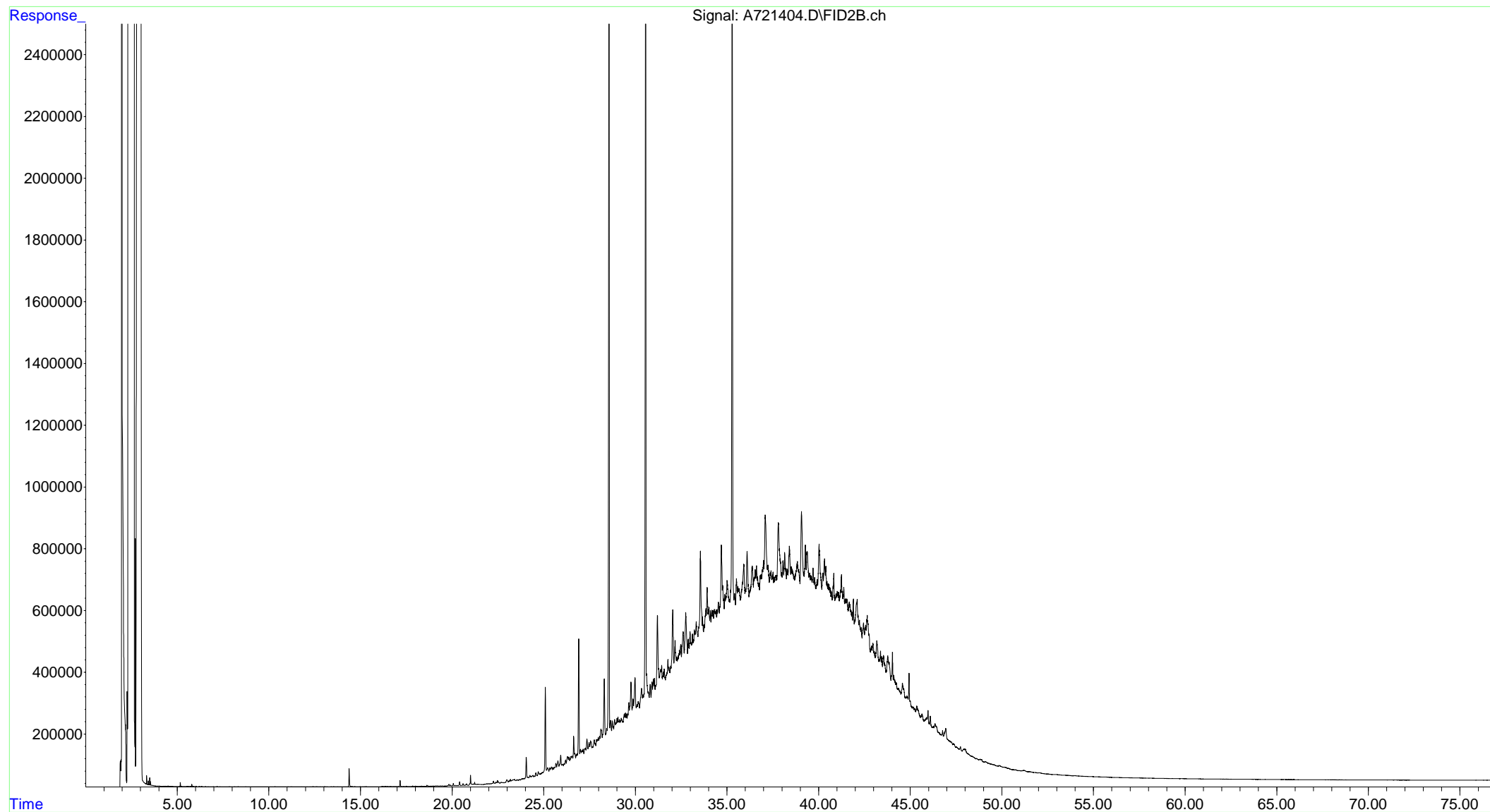
Received By: \_\_\_\_\_

Date/Time:

FORM NO: 01-01 (rev. 14-OCT-07)

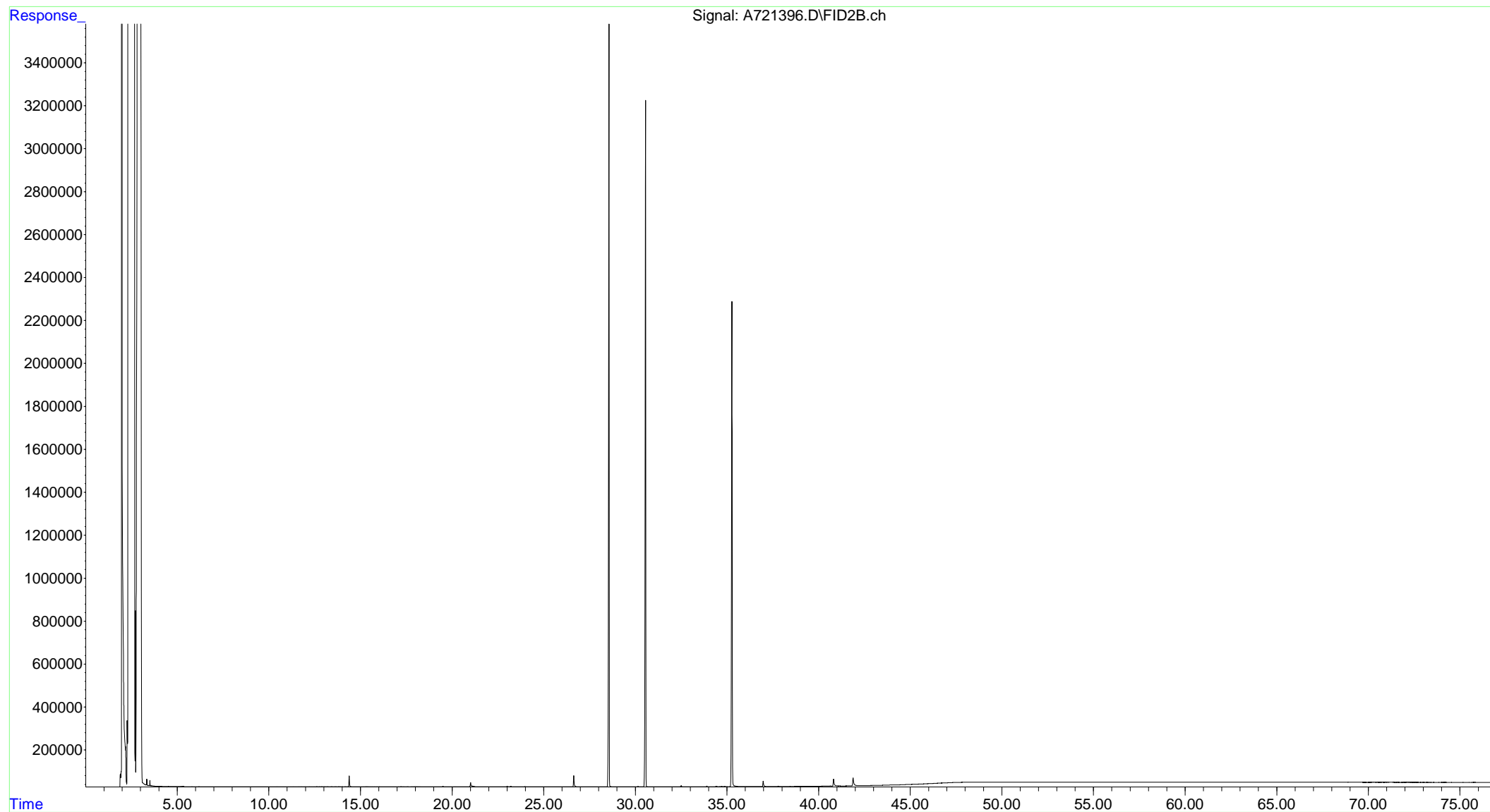
# **GC-FID Chromatogram**

File :O:\Forensics\Data\FID7\2013\APR2013\APR25.SEC\A721404.D  
Operator : FID7:DP  
Acquired : 26 Apr 2013 4:54 am using AcqMethod FID7.M  
Instrument : FID 7  
Sample : L1307221-01,42  
Misc Info : WG604214,WG604029  
ALS Vial : 58

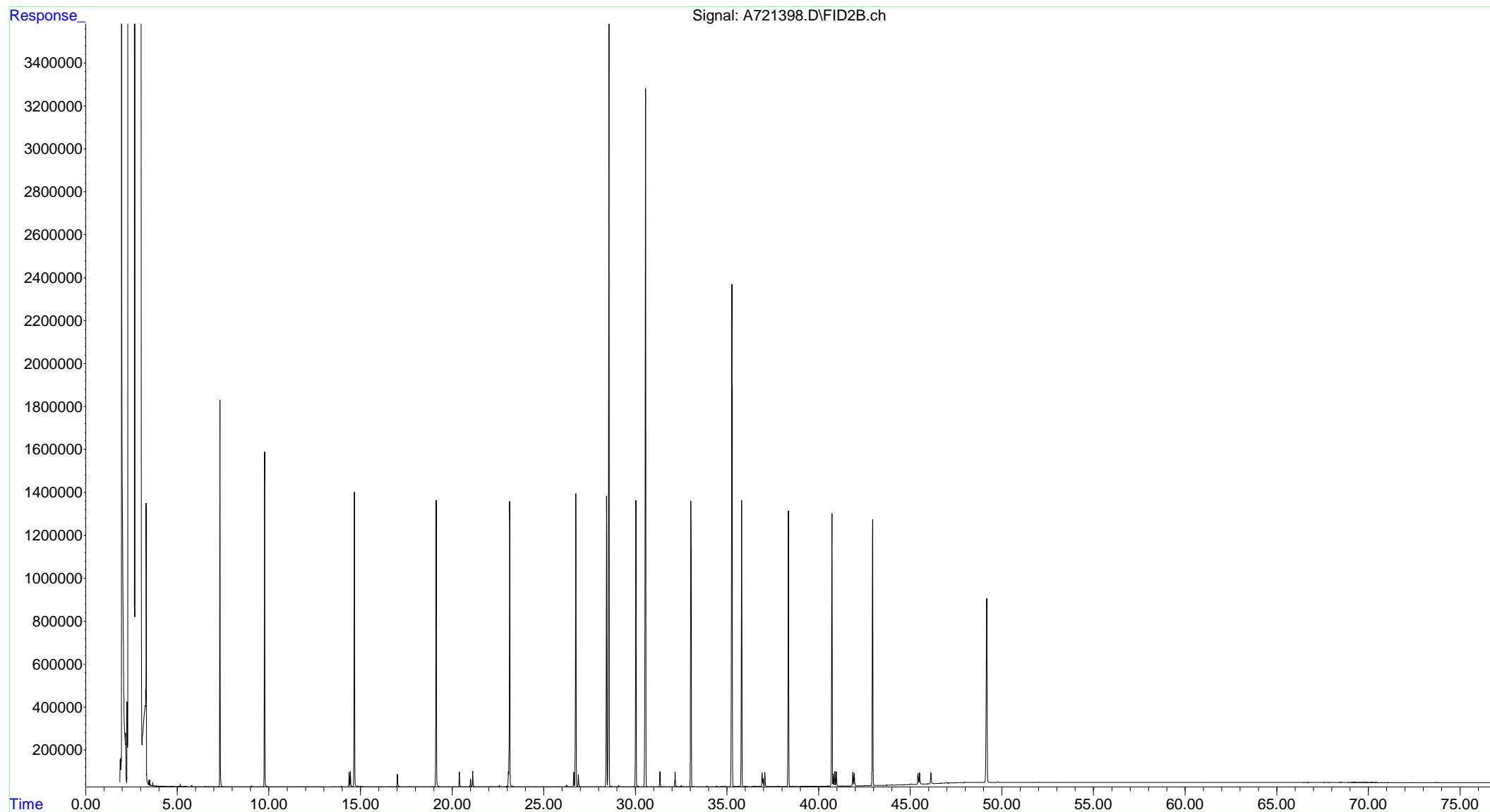




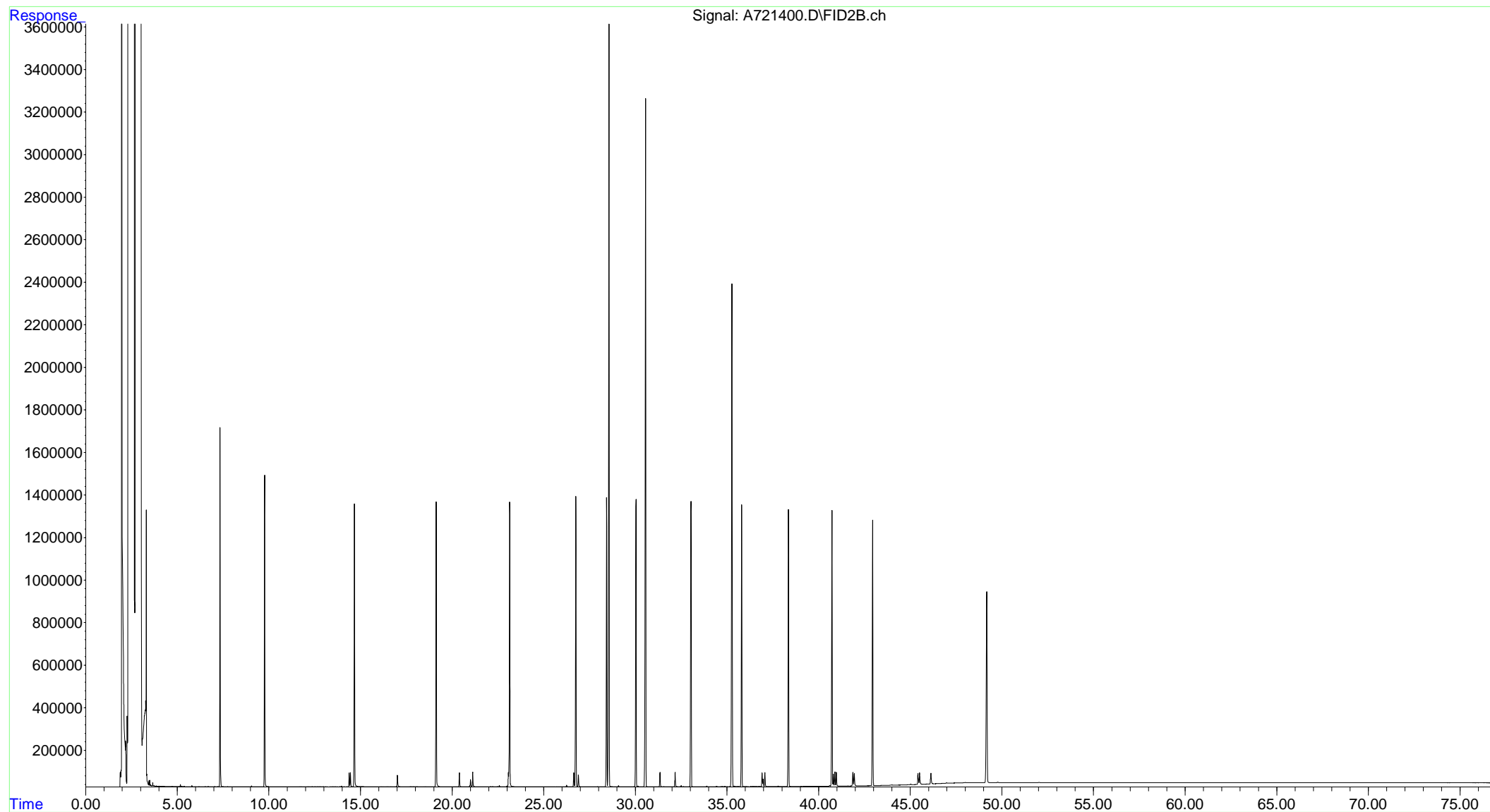
File :O:\Forensics\Data\FID7\2013\APR2013\APR25.SEC\A721396.D  
Operator : FID7:DP  
Acquired : 25 Apr 2013 11:14 pm using AcqMethod FID7.M  
Instrument : FID 7  
Sample : WG604029-1,42  
Misc Info : WG604214,WG604029  
ALS Vial : 54



File :O:\Forensics\Data\FID7\2013\APR2013\APR25.SEC\A721398.D  
Operator : FID7:DP  
Acquired : 26 Apr 2013 12:39 am using AcqMethod FID7.M  
Instrument : FID 7  
Sample : WG604029-2,42  
Misc Info : WG604214,WG604029  
ALS Vial : 55



File :O:\Forensics\Data\FID7\2013\APR2013\APR25.SEC\A721400.D  
Operator : FID7:DP  
Acquired : 26 Apr 2013 2:04 am using AcqMethod FID7.M  
Instrument : FID 7  
Sample : WG604029-3,42  
Misc Info : WG604214,WG604029  
ALS Vial : 56



# **Petroleum Reference Standards**

Data Path : O:\Forensics\Data\FID7\2013\APR2013\APR25.SEC\  
 Data File : A721406.D  
 Signal(s) : FID2B.ch  
 Acq On : 26 Apr 2013 6:19 am  
 Operator : FID7:DP  
 Sample : WG604214-2  
 Misc : Alkane Reference Standard (C8 - C40)  
 ALS Vial : 59 Sample Multiplier: 1

Integration File: SHCINT2.E  
 Quant Time: Apr 26 09:34:34 2013  
 Quant Method : O:\Forensics\Data\FID7\2013\APR2013\APR25.SEC\HC7111612R.M  
 Quant Title : FID Forensics  
 QLast Update : Wed Apr 24 23:09:05 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1.0  
 Signal Phase : Rtx-5MS  
 Signal Info : 0.25mm

Sub List : CCAL - CCAL

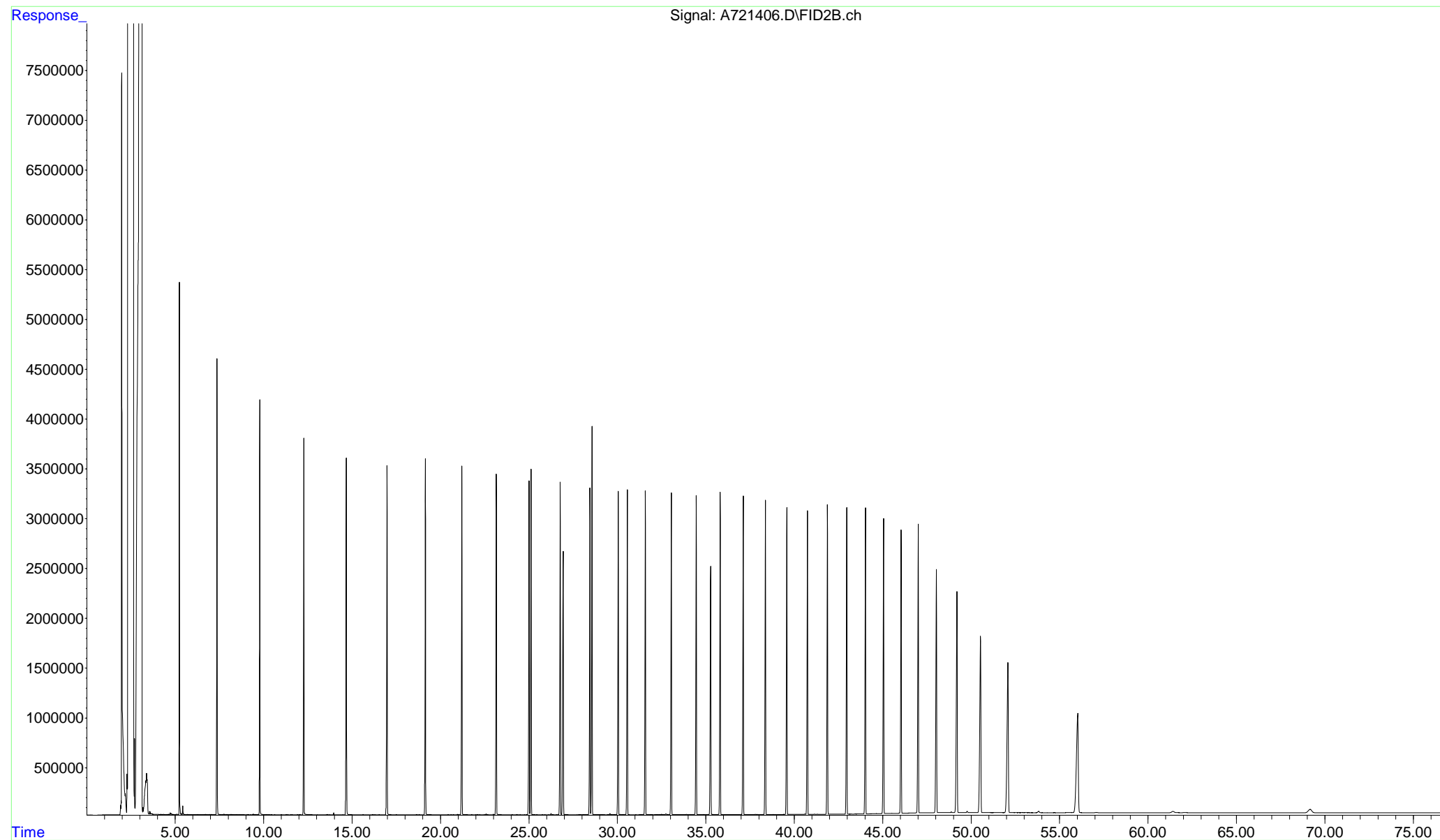
Compound		R.T.	Response	Conc	Units
-----					
Internal Standards					
1) I	5-alpha-androstane	30.563	74449375	50.000	ug/mL M4
System Monitoring Compounds					
19) s	ortho-terphenyl	28.566	85151119	53.827	ug/mL M4
Spiked Amount	50.000	Range 50 - 130	Recovery	=	107.65%
24) s	d50-Tetracosane	35.269	66604369	51.289	ug/mL M4
Spiked Amount	50.000	Range 50 - 130	Recovery	=	102.58%
Target Compounds					
2) t	n-Octane (C8)	5.237	63023950	51.603	ug/mL M4
3) t	n-Nonane (C9)	7.358	66901079	53.804	ug/mL M4
4) t	n-Decane (C10)	9.787	71395905	55.457	ug/mL M4
5) t	n-Undecane (C11)	12.270	70366344	54.382	ug/mL M4
6) t	n-Dodecane (C12)	14.680	71167773	53.846	ug/mL M4
7) t	n-Tridecane (C13)	16.975	71220461	53.644	ug/mL M4
9) t	n-Tetradecane (C14)	19.148	73899871	55.122	ug/mL M4
11) t	n-Pentadecane (C15)	21.204	73124696	54.634	ug/mL M4
12) t	n-Hexadecane (C16)	23.154	73737208	54.486	ug/mL M4
14) t	n-Heptadecane (C17)	25.006	74068541	55.192	ug/mL M4
15) t	Pristane	25.119	74552837	54.132	ug/mL M4
16) t	n-Octadecane (C18)	26.767	73763255	53.695	ug/mL M4
17) t	Phytane	26.933	74991419	55.147	ug/mL M4
18) t	n-Nonadecane (C19)	28.447	73434903	53.597	ug/mL M4
20) t	n-Eicosane (C20)	30.047	73766937	53.325	ug/mL M4
21) t	n-Heneicosane (C21)	31.580	74463870	53.688	ug/mL M4
22) t	n-Docosane (C22)	33.050	75026864	53.718	ug/mL M4
23) t	n-Tricosane (C23)	34.459	75293408	52.920	ug/mL M4
25) t	n-Tetracosane (C24)	35.813	75269226	53.766	ug/mL M4
26) t	n-Pentacosane (C25)	37.115	75406083	52.540	ug/mL M4
27) t	n-Hexacosane (C26)	38.369	76858792	53.708	ug/mL M4
28) t	n-Heptacosane (C27)	39.579	76030165	53.883	ug/mL M4
29) t	n-Octacosane (C28)	40.748	76177422	53.350	ug/mL M4
30) t	n-Nonacosane (C29)	41.876	76722394	53.417	ug/mL M4
31) t	n-Triacontane (C30)	42.968	76704595	53.876	ug/mL M4
32) t	n-Hentriacontane (C31)	44.025	76908175	53.222	ug/mL M4
33) t	n-Dotriacontane (C32)	45.050	76057888	52.681	ug/mL M4
34) t	n-Tritriacontane (C33)	46.044	73371006	53.039	ug/mL M4
35) t	n-tetratriacontane (C34)	47.011	77448773	54.260	ug/mL M4
36) t	n-Pentatriacontane (C35)	48.036	77263269	53.137	ug/mL M4
37) t	n-Hexatriacontane (C36)	49.198	82571657	55.485	ug/mL M4
38) t	n-Heptatriacontane (C37)	50.530	76893106	52.962	ug/mL M4
39) t	n-Octatriacontane (C38)	52.081	76360162	52.863	ug/mL M4
41) t	n-Tetracontane (C40)	56.029	72198932	53.236	ug/mL M4

SemiQuant Compounds - Not Calibrated on this Instrument

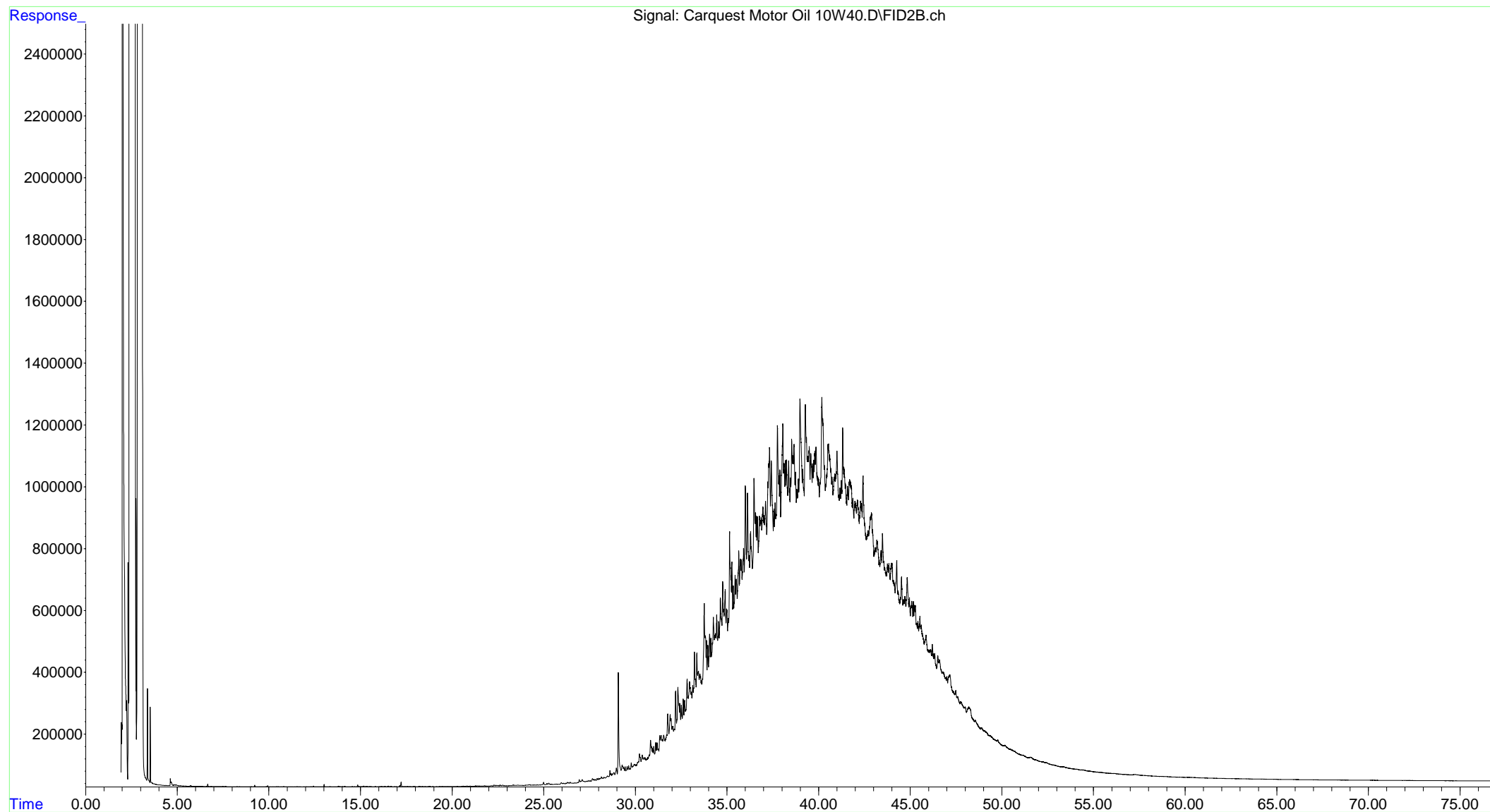
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : O:\Forensics\Data\FID7\2013\APR2013\APR25.SEC\  
Data File : A721406.D  
Operator : FID7:DP  
Acquired : 26 Apr 2013 6:19 am using AcqMethod FID7.M  
Instrument: FID 7  
Sample : WG604214-2  
Misc Info : Alkane Reference Standard (C8 - C40)  
ALS Vial : 59



File :O:\Forensics\LIBRARY\Hydrocarbon Reference Standards\Carques  
... t Motor Oil 10W40.D  
Operator : JT  
Instrument : FID 7  
Acquired : 7 Feb 2013 1:06 am using AcqMethod FID7.M  
Sample : Motor Oil 10W40  
Misc Info : 1X





## ANALYTICAL REPORT

Lab Number:	L1307222
Client:	Integral Consulting, Inc. 267 Broadway Fifth Floor New York, NY 10007
ATTN:	Alana Carroll
Phone:	(212) 962-4301
Project Name:	514 W 27TH ST NYC
Project Number:	E040
Report Date:	04/30/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1307222-01	MW-2_042313	514 W 27TH ST NYC	04/23/13 12:05
L1307222-02	MW-3_042313	514 W 27TH ST NYC	04/23/13 15:20
L1307222-03	MW-4_042313	514 W 27TH ST NYC	04/23/13 14:15
L1307222-04	MW-5_042313	514 W 27TH ST NYC	04/23/13 13:10
L1307222-05	MW-5_042313_DUP	514 W 27TH ST NYC	04/23/13 13:10
L1307222-06	FIELD BLANK	514 W 27TH ST NYC	04/23/13 00:00
L1307222-07	TRIP BLANK	514 W 27TH ST NYC	04/23/13 00:00

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

The samples were received without the containers for Dissolved Metals and Semivolatile Organics analysis. An aliquot was taken from an unpreserved container and preserved appropriately.

The element list for metals analysis was specified by the client.

#### Volatile Organics

L1307222-06, -07: The Field Blank and Trip Blank have results for Acetone present below the reporting limit.

The sample vials were verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

#### Semivolatile Organics

The WG603893-4 MS recoveries, performed on L1307222-03, were below the acceptance criteria for 3,3'-Dichlorobenzidine (28%) and 4-Chloroaniline (38%).

The WG603893-4/-5 MS/MSD RPDs, performed on L1307222-03, are above the acceptance criteria for 3,3'-Dichlorobenzidine (48%) and 4-Chloroaniline (33%).

#### Total Metals

L1307222-02 and -03 have elevated detection limits for all elements due to the dilutions required by matrix interferences encountered during analysis.

The WG603571-3/-4 MS/MSD recoveries, performed on L1307222-03, are above the acceptance criteria for Selenium (138%/139%). A post digestion spike was performed with an acceptable recovery of 122%.

The WG603571-3/-4 MS/MSD recoveries for Calcium (600%/380%), Magnesium (163%/147%), Potassium (173%/163%), and Sodium (410%/350), performed on L1307222-03, do not apply because the sample concentrations are greater than four times the spike amount added.

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

### Case Narrative (continued)

#### Dissolved Metals

L1307222-02 and -03 have elevated detection limits due to the dilutions required by matrix interferences encountered during analysis.

L1307222-02: The dissolved result is greater than the total result for Sodium. The sample containers were verified as being labeled correctly by the laboratory, and aliquots were analyzed from each bottle, confirming the original results.

The WG604141-3/-4 MS/MSD recoveries, performed on L1307222-03, are above the acceptance criteria for Mercury (131%/131%). A post digestion spike was performed with an acceptable recovery of 107%.


The WG604841-3/-4 MS/MSD recoveries, performed on L1307222-03, are outside the acceptance criteria for Antimony (77%/78%), Iron (147%/124%), and Silver (MS at 73%). A post digestion spike was performed with acceptable recoveries for Antimony (124%), Iron (124%), and Silver (80%).

The WG604841-3/-4 MS/MSD recoveries, performed on L1307222-03, are above the acceptance criteria for Selenium (140%/141%). A post digestion spike was performed with an unacceptable recovery of 131%. This has been attributed to sample matrix.

The WG604841-3/-4 MS/MSD recoveries for Calcium (480%/190%), Potassium (MSD at 72%), and Sodium (MSD at 0%) performed on L1307222-03, do not apply because the sample concentrations are greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 04/30/13

# ORGANICS

# **VOLATILES**

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-01  
**Client ID:** MW-2\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/28/13 18:22  
**Analyst:** PD

**Date Collected:** 04/23/13 12:05  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.43	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.38	J	ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-01

Date Collected: 04/23/13 12:05

Client ID: MW-2\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.2	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1



**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-01

Date Collected: 04/23/13 12:05

Client ID: MW-2\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-02  
**Client ID:** MW-3\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/28/13 18:47  
**Analyst:** PD

**Date Collected:** 04/23/13 15:20  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.52		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.46	J	ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-02  
 Client ID: MW-3\_042313  
 Sample Location: 514 W 27TH ST NYC

Date Collected: 04/23/13 15:20  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.1	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-02

Date Collected: 04/23/13 15:20

Client ID: MW-3\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-03  
**Client ID:** MW-4\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/28/13 19:13  
**Analyst:** PD

**Date Collected:** 04/23/13 14:15  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.53		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.40	J	ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-03  
 Client ID: MW-4\_042313  
 Sample Location: 514 W 27TH ST NYC

Date Collected: 04/23/13 14:15  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.4	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-03

Date Collected: 04/23/13 14:15

Client ID: MW-4\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-04  
**Client ID:** MW-5\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/28/13 19:38  
**Analyst:** PD

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.22	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.28	J	ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1



**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-04

Date Collected: 04/23/13 13:10

Client ID: MW-5\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	6.6		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.2	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-04

Date Collected: 04/23/13 13:10

Client ID: MW-5\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-05  
**Client ID:** MW-5\_042313\_DUP  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/28/13 20:03  
**Analyst:** PD

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.30	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.28	J	ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-05  
 Client ID: MW-5\_042313\_DUP  
 Sample Location: 514 W 27TH ST NYC

Date Collected: 04/23/13 13:10  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	7.0		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.9	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-05

Date Collected: 04/23/13 13:10

Client ID: MW-5\_042313\_DUP

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-06  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/28/13 20:28  
**Analyst:** PD

**Date Collected:** 04/23/13 00:00  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-06  
 Client ID: FIELD BLANK  
 Sample Location: 514 W 27TH ST NYC

Date Collected: 04/23/13 00:00  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.2	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-06

Date Collected: 04/23/13 00:00

Client ID: FIELD BLANK

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130



**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-07  
**Client ID:** TRIP BLANK  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/28/13 20:53  
**Analyst:** PD

**Date Collected:** 04/23/13 00:00  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-07  
 Client ID: TRIP BLANK  
 Sample Location: 514 W 27TH ST NYC

Date Collected: 04/23/13 00:00  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.7	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-07

Date Collected: 04/23/13 00:00

Client ID: TRIP BLANK

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/28/13 12:55  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG604678-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/28/13 12:55  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG604678-3					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70

Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/28/13 12:55  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG604678-3					
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.38
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.54
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.38
1,4-Dioxane	ND		ug/l	250	76.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.63

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG604678-1 WG604678-2								
Methylene chloride	92		88		70-130	4		20
1,1-Dichloroethane	98		95		70-130	3		20
Chloroform	100		95		70-130	5		20
2-Chloroethylvinyl ether	92		89		70-130	3		20
Carbon tetrachloride	101		98		63-132	3		20
1,2-Dichloropropane	98		95		70-130	3		20
Dibromochloromethane	110		105		63-130	5		20
1,1,2-Trichloroethane	107		101		70-130	6		20
Tetrachloroethene	110		106		70-130	4		20
Chlorobenzene	106		104		75-130	2		20
Trichlorofluoromethane	99		97		62-150	2		20
1,2-Dichloroethane	98		97		70-130	1		20
1,1,1-Trichloroethane	99		97		67-130	2		20
Bromodichloromethane	99		97		67-130	2		20
trans-1,3-Dichloropropene	106		104		70-130	2		20
cis-1,3-Dichloropropene	100		97		70-130	3		20
1,1-Dichloropropene	98		96		70-130	2		20
Bromoform	110		105		54-136	5		20
1,1,2,2-Tetrachloroethane	110		107		67-130	3		20
Benzene	98		95		70-130	3		20
Toluene	106		104		70-130	2		20

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG604678-1 WG604678-2								
Ethylbenzene	107		103		70-130	4		20
Chloromethane	90		107		64-130	17		20
Bromomethane	66		60		39-139	10		20
Vinyl chloride	91		88		55-140	3		20
Chloroethane	112		109		55-138	3		20
1,1-Dichloroethene	100		98		61-145	2		20
trans-1,2-Dichloroethene	98		96		70-130	2		20
Trichloroethene	95		92		70-130	3		20
1,2-Dichlorobenzene	109		105		70-130	4		20
1,3-Dichlorobenzene	109		107		70-130	2		20
1,4-Dichlorobenzene	110		108		70-130	2		20
Methyl tert butyl ether	96		93		63-130	3		20
p/m-Xylene	108		105		70-130	3		20
o-Xylene	108		106		70-130	2		20
cis-1,2-Dichloroethene	98		95		70-130	3		20
Dibromomethane	102		98		70-130	4		20
1,2,3-Trichloropropane	115		112		64-130	3		20
Acrylonitrile	94		96		70-130	2		20
Isopropyl Ether	96		92		70-130	4		20
tert-Butyl Alcohol	92		84		70-130	9		20
Styrene	110		107		70-130	3		20



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG604678-1 WG604678-2								
Dichlorodifluoromethane	85		84		36-147	1		20
Acetone	92		87		58-148	6		20
Carbon disulfide	92		91		51-130	1		20
2-Butanone	83		78		63-138	6		20
Vinyl acetate	94		92		70-130	2		20
4-Methyl-2-pentanone	99		96		59-130	3		20
2-Hexanone	102		98		57-130	4		20
Bromochloromethane	101		96		70-130	5		20
2,2-Dichloropropane	102		100		63-133	2		20
1,2-Dibromoethane	108		103		70-130	5		20
1,3-Dichloropropane	106		104		70-130	2		20
1,1,1,2-Tetrachloroethane	108		104		64-130	4		20
Bromobenzene	111		108		70-130	3		20
n-Butylbenzene	108		106		53-136	2		20
sec-Butylbenzene	109		108		70-130	1		20
tert-Butylbenzene	109		108		70-130	1		20
o-Chlorotoluene	88		87		70-130	1		20
p-Chlorotoluene	110		106		70-130	4		20
1,2-Dibromo-3-chloropropane	104		103		41-144	1		20
Hexachlorobutadiene	106		105		63-130	1		20
Isopropylbenzene	111		109		70-130	2		20

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG604678-1 WG604678-2								
p-Isopropyltoluene	110		108		70-130	2		20
Naphthalene	103		98		70-130	5		20
n-Propylbenzene	110		108		69-130	2		20
1,2,3-Trichlorobenzene	105		98		70-130	7		20
1,2,4-Trichlorobenzene	106		102		70-130	4		20
1,3,5-Trimethylbenzene	111		108		64-130	3		20
1,2,4-Trimethylbenzene	110		107		70-130	3		20
Methyl Acetate	94		92		70-130	2		20
Ethyl Acetate	90		88		70-130	2		20
Cyclohexane	94		93		70-130	1		20
Ethyl-Tert-Butyl-Ether	97		95		70-130	2		20
Tertiary-Amyl Methyl Ether	97		96		66-130	1		20
1,4-Dioxane	86		78		56-162	10		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		96		70-130	2		20
1,4-Diethylbenzene	106		105		70-130	1		20
4-Ethyltoluene	109		107		70-130	2		20
1,2,4,5-Tetramethylbenzene	109		102		70-130	7		20
Ethyl ether	97		94		59-134	3		20
trans-1,4-Dichloro-2-butene	101		98		70-130	3		20
Methyl cyclohexane	97		96		70-130	1		20

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307222**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG604678-1 WG604678-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		100		70-130
Toluene-d8	106		105		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	100		100		70-130

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG604678-4 WG604678-5 QC Sample: L1307222-03 Client ID: MW-4\_042313

Methylene chloride	ND	10	9.3	93		9.2	92		70-130	1		20
1,1-Dichloroethane	ND	10	10	100		9.9	100		70-130	1		20
Chloroform	ND	10	10	106		10	103		70-130	0		20
Carbon tetrachloride	ND	10	11	108		11	108		63-132	0		20
1,2-Dichloropropane	ND	10	9.7	97		9.6	96		70-130	1		20
Dibromochloromethane	ND	10	11	110		11	108		63-130	0		20
1,1,2-Trichloroethane	ND	10	11	108		10	106		70-130	10		20
Tetrachloroethene	0.53	10	12	114		12	112		70-130	0		20
Chlorobenzene	ND	10	11	108		11	107		75-130	0		20
Trichlorofluoromethane	ND	10	11	110		11	109		62-150	0		20
1,2-Dichloroethane	ND	10	10	102		10	101		70-130	0		20
1,1,1-Trichloroethane	ND	10	11	108		11	107		67-130	0		20
Bromodichloromethane	ND	10	10	102		10	101		67-130	0		20
trans-1,3-Dichloropropene	ND	10	10	100		9.9	99		70-130	1		20
cis-1,3-Dichloropropene	ND	10	9.2	92		9.1	91		70-130	1		20
1,1-Dichloropropene	ND	10	10	101		10	101		70-130	0		20
Bromoform	ND	10	10	104		10	106		54-136	0		20
1,1,2,2-Tetrachloroethane	ND	10	11	107		11	107		67-130	0		20
Benzene	ND	10	10	101		10	101		70-130	0		20
Toluene	ND	10	11	113		11	113		70-130	0		20
Ethylbenzene	ND	10	11	110		11	108		70-130	0		20

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG604678-4 WG604678-5 QC Sample: L1307222-03 Client ID: MW-4\_042313

Chloromethane	ND	10	7.7	77		8.4	84		64-130	9		20
Bromomethane	ND	10	6.2	62		7.2	72		39-139	15		20
Vinyl chloride	ND	10	9.3	93		9.4	95		55-140	1		20
Chloroethane	ND	10	11	111		11	113		55-138	0		20
1,1-Dichloroethene	ND	10	10	106		10	106		61-145	0		20
trans-1,2-Dichloroethene	ND	10	10	102		10	102		70-130	0		20
Trichloroethene	0.40J	10	10	105		10	102		70-130	0		20
1,2-Dichlorobenzene	ND	10	11	107		11	107		70-130	0		20
1,3-Dichlorobenzene	ND	10	11	109		11	109		70-130	0		20
1,4-Dichlorobenzene	ND	10	11	108		11	109		70-130	0		20
Methyl tert butyl ether	ND	10	9.3	93		9.4	94		63-130	1		20
p/m-Xylene	ND	20	22	112		22	111		70-130	0		20
o-Xylene	ND	20	22	110		22	109		70-130	0		20
cis-1,2-Dichloroethene	ND	10	10	102		10	103		70-130	0		20
Dibromomethane	ND	10	10	103		10	103		70-130	0		20
1,2,3-Trichloropropane	ND	10	11	112		11	110		64-130	0		20
Acrylonitrile	ND	10	9.0	90		8.7	87		70-130	3		20
Styrene	ND	20	22	110		22	109		70-130	0		20
Dichlorodifluoromethane	ND	10	9.4	94		9.4	94		36-147	0		20
Acetone	1.4J	10	9.4	94		9.7	97		58-148	3		20
Carbon disulfide	ND	10	9.5	95		9.6	96		51-130	1		20

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG604678-4 WG604678-5 QC Sample: L1307222-03 Client ID: MW-4\_042313

2-Butanone	ND	10	7.8	78		8.0	80		63-138	3		20
Vinyl acetate	ND	10	8.6	86		8.3	83		70-130	4		20
4-Methyl-2-pentanone	ND	10	9.3	93		9.1	91		59-130	2		20
2-Hexanone	ND	10	9.0	90		9.3	93		57-130	3		20
Bromochloromethane	ND	10	11	107		10	104		70-130	10		20
2,2-Dichloropropane	ND	10	8.5	85		8.3	83		63-133	2		20
1,2-Dibromoethane	ND	10	11	106		10	105		70-130	10		20
1,3-Dichloropropane	ND	10	10	106		10	105		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	11	109		11	108		64-130	0		20
Bromobenzene	ND	10	11	110		11	110		70-130	0		20
n-Butylbenzene	ND	10	11	107		10	105		53-136	10		20
sec-Butylbenzene	ND	10	11	110		11	109		70-130	0		20
tert-Butylbenzene	ND	10	11	110		11	109		70-130	0		20
o-Chlorotoluene	ND	10	8.6	86		8.4	84		70-130	2		20
p-Chlorotoluene	ND	10	11	106		11	106		70-130	0		20
1,2-Dibromo-3-chloropropane	ND	10	10	101		10	101		41-144	0		20
Hexachlorobutadiene	ND	10	9.9	99		10	101		63-130	1		20
Isopropylbenzene	ND	10	11	111		11	110		70-130	0		20
p-Isopropyltoluene	ND	10	11	108		11	108		70-130	0		20
Naphthalene	ND	10	9.4	94		9.8	98		70-130	4		20
n-Propylbenzene	ND	10	11	110		11	108		69-130	0		20

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG604678-4 WG604678-5 QC Sample: L1307222-03 Client ID: MW-4\_042313

1,2,3-Trichlorobenzene	ND	10	9.8	98		10	102		70-130	2		20
1,2,4-Trichlorobenzene	ND	10	9.8	98		10	101		70-130	2		20
1,3,5-Trimethylbenzene	ND	10	11	110		11	109		64-130	0		20
1,2,4-Trimethylbenzene	ND	10	11	109		11	108		70-130	0		20
1,4-Dioxane	ND	1000	810	81		840	84		56-162	4		20
1,4-Diethylbenzene	ND	10	10	105		10	104		70-130	0		20
4-Ethyltoluene	ND	10	11	108		11	107		70-130	0		20
1,2,4,5-Tetramethylbenzene	ND	10	10	100		10	101		70-130	0		20
Ethyl ether	ND	10	9.4	94		9.3	93		59-134	1		20
trans-1,4-Dichloro-2-butene	ND	10	8.4	84		8.3	84		70-130	1		20

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	104		104		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	102		102		70-130
Toluene-d8	104		103		70-130

# SEMIVOLATILES



**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-01  
**Client ID:** MW-2\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/26/13 15:24  
**Analyst:** RC

**Date Collected:** 04/23/13 12:05  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-01

Date Collected: 04/23/13 12:05

Client ID: MW-2\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	78		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-01  
**Client ID:** MW-2\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 04/26/13 17:47  
**Analyst:** AS

**Date Collected:** 04/23/13 12:05  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	71		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-02  
**Client ID:** MW-3\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/26/13 15:52  
**Analyst:** RC

**Date Collected:** 04/23/13 15:20  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-02  
 Client ID: MW-3\_042313  
 Sample Location: 514 W 27TH ST NYC

Date Collected: 04/23/13 15:20  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	100		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-02  
**Client ID:** MW-3\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 04/26/13 18:16  
**Analyst:** AS

**Date Collected:** 04/23/13 15:20  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	87		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-03  
**Client ID:** MW-4\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/26/13 16:19  
**Analyst:** RC

**Date Collected:** 04/23/13 14:15  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-03

Date Collected: 04/23/13 14:15

Client ID: MW-4\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	93		41-149



**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-03  
**Client ID:** MW-4\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 04/26/13 18:45  
**Analyst:** AS

**Date Collected:** 04/23/13 14:15  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	81		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-04  
**Client ID:** MW-5\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/26/13 16:47  
**Analyst:** RC

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-04  
 Client ID: MW-5\_042313  
 Sample Location: 514 W 27TH ST NYC

Date Collected: 04/23/13 13:10  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	111		10-120
4-Terphenyl-d14	99		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-04  
**Client ID:** MW-5\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 04/26/13 19:14  
**Analyst:** AS

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	86		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-05  
**Client ID:** MW-5\_042313\_DUP  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/26/13 17:14  
**Analyst:** RC

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-05  
 Client ID: MW-5\_042313\_DUP  
 Sample Location: 514 W 27TH ST NYC

Date Collected: 04/23/13 13:10  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	75		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-05  
**Client ID:** MW-5\_042313\_DUP  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 04/26/13 19:44  
**Analyst:** AS

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	71		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-06  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 04/26/13 17:42  
**Analyst:** RC

**Date Collected:** 04/23/13 00:00  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1



**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

Lab ID: L1307222-06  
 Client ID: FIELD BLANK  
 Sample Location: 514 W 27TH ST NYC

Date Collected: 04/23/13 00:00  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	83		41-149

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-06  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 04/26/13 20:13  
**Analyst:** AS

**Date Collected:** 04/23/13 00:00  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	73		41-149

Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/26/13 10:51  
 Analyst: RC

Extraction Method: EPA 3510C  
 Extraction Date: 04/25/13 07:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG603893-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40
Hexachlorocyclopentadiene	ND		ug/l	20	2.1
Isophorone	ND		ug/l	5.0	0.35
Nitrobenzene	ND		ug/l	2.0	0.50
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	0.46
Di-n-butylphthalate	ND		ug/l	5.0	0.54
Di-n-octylphthalate	ND		ug/l	5.0	0.53
Diethyl phthalate	ND		ug/l	5.0	0.45
Dimethyl phthalate	ND		ug/l	5.0	0.45
Biphenyl	ND		ug/l	2.0	0.50
4-Chloroaniline	ND		ug/l	5.0	0.83
2-Nitroaniline	ND		ug/l	5.0	0.40
3-Nitroaniline	ND		ug/l	5.0	0.59
4-Nitroaniline	ND		ug/l	5.0	0.55
Dibenzofuran	ND		ug/l	2.0	0.47
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65
Acetophenone	ND		ug/l	5.0	0.55



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 04/26/13 10:51  
 Analyst: RC

Extraction Method: EPA 3510C  
 Extraction Date: 04/25/13 07:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG603893-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50
2-Chlorophenol	ND		ug/l	2.0	0.34
2,4-Dichlorophenol	ND		ug/l	5.0	0.43
2,4-Dimethylphenol	ND		ug/l	5.0	1.2
2-Nitrophenol	ND		ug/l	10	0.48
4-Nitrophenol	ND		ug/l	10	1.2
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59
Phenol	ND		ug/l	5.0	0.26
2-Methylphenol	ND		ug/l	5.0	0.53
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.53

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	100		10-120
4-Terphenyl-d14	112		41-149

Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM  
 Analytical Date: 04/26/13 12:55  
 Analyst: AS

Extraction Method: EPA 3510C  
 Extraction Date: 04/25/13 07:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG603894-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**Method Blank Analysis**  
**Batch Quality Control****Analytical Method:** 1,8270D-SIM**Extraction Method:** EPA 3510C**Analytical Date:** 04/26/13 12:55**Extraction Date:** 04/25/13 07:43**Analyst:** AS

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG603894-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	87		41-149

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG603893-2 WG603893-3								
1,2,4-Trichlorobenzene	69		54		39-98	24		30
Bis(2-chloroethyl)ether	75		60		40-140	22		30
1,2-Dichlorobenzene	63		50		40-140	23		30
1,3-Dichlorobenzene	60		48		40-140	22		30
1,4-Dichlorobenzene	63		50		36-97	23		30
3,3'-Dichlorobenzidine	72		61		40-140	17		30
2,4-Dinitrotoluene	106	Q	88		24-96	19		30
2,6-Dinitrotoluene	103		86		40-140	18		30
4-Chlorophenyl phenyl ether	97		81		40-140	18		30
4-Bromophenyl phenyl ether	105		85		40-140	21		30
Bis(2-chloroisopropyl)ether	76		61		40-140	22		30
Bis(2-chloroethoxy)methane	84		67		40-140	23		30
Hexachlorocyclopentadiene	54		43		40-140	23		30
Isophorone	82		68		40-140	19		30
Nitrobenzene	76		62		40-140	20		30
NitrosoDiPhenylAmine(NDPA)/DPA	101		83		40-140	20		30
n-Nitrosodi-n-propylamine	82		66		29-132	22		30
Bis(2-Ethylhexyl)phthalate	108		89		40-140	19		30
Butyl benzyl phthalate	106		87		40-140	20		30
Di-n-butylphthalate	108		91		40-140	17		30
Di-n-octylphthalate	116		94		40-140	21		30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG603893-2 WG603893-3								
Diethyl phthalate	98		82		40-140	18		30
Dimethyl phthalate	99		82		40-140	19		30
Biphenyl	84		69			20		30
4-Chloroaniline	45		42		40-140	7		30
2-Nitroaniline	105		84		52-143	22		30
3-Nitroaniline	76		62		25-145	20		30
4-Nitroaniline	96		81		51-143	17		30
Dibenzofuran	94		78		40-140	19		30
1,2,4,5-Tetrachlorobenzene	77		64		2-134	18		30
Acetophenone	85		69		39-129	21		30
2,4,6-Trichlorophenol	100		82		30-130	20		30
P-Chloro-M-Cresol	99	Q	83		23-97	18		30
2-Chlorophenol	81		66		27-123	20		30
2,4-Dichlorophenol	93		74		30-130	23		30
2,4-Dimethylphenol	90		74		30-130	20		30
2-Nitrophenol	86		69		30-130	22		30
4-Nitrophenol	70		58		10-80	19		30
2,4-Dinitrophenol	105		86		20-130	20		30
4,6-Dinitro-o-cresol	110		88		20-164	22		30
Phenol	44		36		12-110	20		30
2-Methylphenol	82		66		30-130	22		30



**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG603893-2 WG603893-3								
3-Methylphenol/4-Methylphenol	77		63		30-130	20		30
2,4,5-Trichlorophenol	106		86		30-130	21		30
Benzoic Acid	54		44			20		30
Benzyl Alcohol	76		62			20		30
Carbazole	104		86		55-144	19		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		48		21-120
Phenol-d6	43		36		10-120
Nitrobenzene-d5	81		68		23-120
2-Fluorobiphenyl	89		73		15-120
2,4,6-Tribromophenol	117		94		10-120
4-Terphenyl-d14	111		91		41-149

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG603894-2 WG603894-3								
Acenaphthene	78		70		37-111	11		40
2-Chloronaphthalene	71		65		40-140	9		40
Fluoranthene	88		86		40-140	2		40
Hexachlorobutadiene	63		57		40-140	10		40
Naphthalene	70		62		40-140	12		40
Benzo(a)anthracene	94		89		40-140	5		40
Benzo(a)pyrene	96		86		40-140	11		40
Benzo(b)fluoranthene	94		84		40-140	11		40
Benzo(k)fluoranthene	103		93		40-140	10		40
Chrysene	91		86		40-140	6		40
Acenaphthylene	78		71		40-140	9		40
Anthracene	92		90		40-140	2		40
Benzo(ghi)perylene	94		77		40-140	20		40
Fluorene	90		81		40-140	11		40
Phenanthrene	73		72		40-140	1		40
Dibenzo(a,h)anthracene	96		82		40-140	16		40
Indeno(1,2,3-cd)Pyrene	98		81		40-140	19		40
Pyrene	85		82		26-127	4		40
2-Methylnaphthalene	71		62		40-140	14		40
Pentachlorophenol	67		66		9-103	2		40
Hexachlorobenzene	69		68		40-140	1		40

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG603894-2 WG603894-3								
Hexachloroethane	67		61		40-140	9		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	50		46		21-120
Phenol-d6	37		35		10-120
Nitrobenzene-d5	79		71		23-120
2-Fluorobiphenyl	80		70		15-120
2,4,6-Tribromophenol	96		90		10-120
4-Terphenyl-d14	87		86		41-149

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG603893-4 WG603893-5 QC Sample: L1307222-03 Client ID: MW-4_042313												
1,2,4-Trichlorobenzene	ND	40	24	60		21	53		39-98	13		30
Bis(2-chloroethyl)ether	ND	40	25	63		24	60		40-140	4		30
1,2-Dichlorobenzene	ND	40	22	55		19	48		40-140	15		30
1,3-Dichlorobenzene	ND	40	20	50		18	45		40-140	11		30
1,4-Dichlorobenzene	ND	40	21	53		18	45		36-97	15		30
3,3'-Dichlorobenzidine	ND	40	11	28	Q	18	45		40-140	48	Q	30
2,4-Dinitrotoluene	ND	40	37	93		34	85		24-96	8		30
2,6-Dinitrotoluene	ND	40	36	90		34	85		40-140	6		30
4-Chlorophenyl phenyl ether	ND	40	34	85		32	80		40-140	6		30
4-Bromophenyl phenyl ether	ND	40	36	90		35	88		40-140	3		30
Bis(2-chloroisopropyl)ether	ND	40	25	63		24	60		40-140	4		30
Bis(2-chloroethoxy)methane	ND	40	28	70		27	68		40-140	4		30
Hexachlorocyclopentadiene	ND	40	20	50		20	50		40-140	0		30
Isophorone	ND	40	28	70		26	65		40-140	7		30
Nitrobenzene	ND	40	26	65		24	60		40-140	8		30
NitrosoDiPhenylAmine(NDPA)/DPA	ND	40	35	88		33	83		40-140	6		30
n-Nitrosodi-n-propylamine	ND	40	27	68		26	65		29-132	4		30
Bis(2-Ethylhexyl)phthalate	ND	40	37	93		35	88		40-140	6		30
Butyl benzyl phthalate	ND	40	38	95		36	90		40-140	5		30
Di-n-butylphthalate	ND	40	38	95		36	90		40-140	5		30
Di-n-octylphthalate	ND	40	40	100		38	95		40-140	5		30

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG603893-4 WG603893-5 QC Sample: L1307222-03 Client ID: MW-4_042313												
Diethyl phthalate	ND	40	35	88		33	83		40-140	6		30
Dimethyl phthalate	ND	40	35	88		33	83		40-140	6		30
Biphenyl	ND	40	30	75		28	70			7		30
4-Chloroaniline	ND	40	15	38	Q	21	53		40-140	33	Q	30
2-Nitroaniline	ND	40	38	95		35	88		52-143	8		30
3-Nitroaniline	ND	40	25	63		20	50		25-145	22		30
4-Nitroaniline	ND	40	37	93		32	80		51-143	14		30
Dibenzofuran	ND	40	33	83		31	78		40-140	6		30
1,2,4,5-Tetrachlorobenzene	ND	40	28	70		26	65		2-134	7		30
Acetophenone	ND	40	28	70		27	68		39-129	4		30
2,4,6-Trichlorophenol	ND	40	36	90		35	88		30-130	3		30
P-Chloro-M-Cresol	ND	40	37	93		35	88		23-97	6		30
2-Chlorophenol	ND	40	27	68		26	65		27-123	4		30
2,4-Dichlorophenol	ND	40	33	83		31	78		30-130	6		30
2,4-Dimethylphenol	ND	40	32	80		30	75		30-130	6		30
2-Nitrophenol	ND	40	29	73		27	68		30-130	7		30
4-Nitrophenol	ND	40	26	65		25	63		10-80	4		30
2,4-Dinitrophenol	ND	40	37	93		35	88		20-130	6		30
4,6-Dinitro-o-cresol	ND	40	38	95		35	88		20-164	8		30
Phenol	ND	40	14	35		13	33		12-110	7		30
2-Methylphenol	ND	40	27	68		25	63		30-130	8		30

## Matrix Spike Analysis

### Batch Quality Control

Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG603893-4 WG603893-5 QC Sample: L1307222-03 Client ID: MW-4_042313												
3-Methylphenol/4-Methylphenol	ND	40	26	65		24	60		30-130	8		30
2,4,5-Trichlorophenol	ND	40	40	100		37	93		30-130	8		30
Benzoic Acid	ND	40	19.J	48		18.J	45			5		30
Benzyl Alcohol	ND	40	25	63		23	58			8		30
Carbazole	ND	40	37	93		36	90		55-144	3		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	106		98		10-120
2-Fluorobiphenyl	81		73		15-120
2-Fluorophenol	48		43		21-120
4-Terphenyl-d14	97		91		41-149
Nitrobenzene-d5	70		64		23-120
Phenol-d6	36		33		10-120

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG603894-4 WG603894-5 QC Sample: L1307222-03

Client ID: MW-4\_042313

Acenaphthene	ND	10	7.4	74		6.6	66		37-111	11		40
2-Chloronaphthalene	ND	10	7.1	71		6.4	64		40-140	10		40
Fluoranthene	ND	10	8.9	89		7.5	75		40-140	17		40
Hexachlorobutadiene	ND	10	6.1	61		5.6	56		40-140	9		40
Naphthalene	ND	10	6.5	65		6.1	61		40-140	6		40
Benzo(a)anthracene	ND	10	9.5	95		7.9	79		40-140	18		40
Benzo(a)pyrene	ND	10	9.5	95		7.3	73		40-140	26		40
Benzo(b)fluoranthene	ND	10	9.4	94		7.3	73		40-140	25		40
Benzo(k)fluoranthene	ND	10	9.7	97		8.0	80		40-140	19		40
Chrysene	ND	10	9.1	91		7.6	76		40-140	18		40
Acenaphthylene	ND	10	7.8	78		7.0	70		40-140	11		40
Anthracene	ND	10	9.5	95		7.8	78		40-140	20		40
Benzo(ghi)perylene	ND	10	9.4	94		6.9	69		40-140	31		40
Fluorene	ND	10	8.8	88		7.9	79		40-140	11		40
Phenanthrene	ND	10	7.4	74		6.2	62		40-140	18		40
Dibenzo(a,h)anthracene	ND	10	9.6	96		7.0	70		40-140	31		40
Indeno(1,2,3-cd)Pyrene	ND	10	9.8	98		6.9	69		40-140	35		40
Pyrene	ND	10	8.6	86		7.2	72		26-127	18		40
2-Methylnaphthalene	ND	10	6.8	68		6.1	61		40-140	11		40
Pentachlorophenol	ND	10	7.9	79		6.5	65		9-103	19		40
Hexachlorobenzene	ND	10	7.2	72		6.0	60		40-140	18		40

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG603894-4 WG603894-5 QC Sample: L1307222-03

Client ID: MW-4\_042313

Hexachloroethane	ND	10	6.3	63		5.8	58		40-140	8		40
------------------	----	----	-----	----	--	-----	----	--	--------	---	--	----

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	98		81		10-120
2-Fluorobiphenyl	76		72		15-120
2-Fluorophenol	44		44		21-120
4-Terphenyl-d14	88		73		41-149
Nitrobenzene-d5	73		69		23-120
Phenol-d6	34		34		10-120



# PCBS

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-04  
**Client ID:** MW-5\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 17:33  
**Analyst:** KB

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/24/13 18:38  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/25/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/25/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.083	0.055	1
Aroclor 1221	ND		ug/l	0.083	0.053	1
Aroclor 1232	ND		ug/l	0.083	0.031	1
Aroclor 1242	ND		ug/l	0.083	0.060	1
Aroclor 1248	ND		ug/l	0.083	0.051	1
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	49		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	43		30-150

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-05  
**Client ID:** MW-5\_042313\_DUP  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 17:51  
**Analyst:** KB

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/24/13 18:38  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/25/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/25/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.083	0.055	1
Aroclor 1221	ND		ug/l	0.083	0.053	1
Aroclor 1232	ND		ug/l	0.083	0.031	1
Aroclor 1242	ND		ug/l	0.083	0.060	1
Aroclor 1248	ND		ug/l	0.083	0.051	1
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	47		30-150
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	40		30-150

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-06  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 04/25/13 18:08  
**Analyst:** KB

**Date Collected:** 04/23/13 00:00  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/24/13 18:38  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 04/25/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 04/25/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.083	0.055	1
Aroclor 1221	ND		ug/l	0.083	0.053	1
Aroclor 1232	ND		ug/l	0.083	0.031	1
Aroclor 1242	ND		ug/l	0.083	0.060	1
Aroclor 1248	ND		ug/l	0.083	0.051	1
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	61		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	50		30-150

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A  
 Analytical Date: 04/25/13 14:43  
 Analyst: KB

Extraction Method: EPA 3510C  
 Extraction Date: 04/24/13 18:38  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 04/25/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 04/25/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04-06 Batch: WG603798-1					
Aroclor 1016	ND		ug/l	0.083	0.055
Aroclor 1221	ND		ug/l	0.083	0.053
Aroclor 1232	ND		ug/l	0.083	0.031
Aroclor 1242	ND		ug/l	0.083	0.060
Aroclor 1248	ND		ug/l	0.083	0.051
Aroclor 1254	ND		ug/l	0.083	0.034
Aroclor 1260	ND		ug/l	0.083	0.032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	91		30-150
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	82		30-150

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04-06 Batch: WG603798-2 WG603798-3								
Aroclor 1016	66		82		40-140	21		50
Aroclor 1260	78		84		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	61		67		30-150
Decachlorobiphenyl	89		92		30-150
2,4,5,6-Tetrachloro-m-xylene	59		66		30-150
Decachlorobiphenyl	79		77		30-150

# PESTICIDES

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-04  
**Client ID:** MW-5\_042313  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/26/13 14:36  
**Analyst:** BW

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 02:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/26/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	0.005	1
Lindane	ND		ug/l	0.020	0.004	1
Alpha-BHC	ND		ug/l	0.020	0.004	1
Beta-BHC	ND		ug/l	0.020	0.006	1
Heptachlor	ND		ug/l	0.020	0.003	1
Aldrin	ND		ug/l	0.020	0.002	1
Heptachlor epoxide	ND		ug/l	0.020	0.004	1
Endrin	ND		ug/l	0.040	0.004	1
Endrin ketone	ND		ug/l	0.040	0.005	1
Dieldrin	ND		ug/l	0.040	0.004	1
4,4'-DDE	ND		ug/l	0.040	0.004	1
4,4'-DDD	ND		ug/l	0.040	0.005	1
4,4'-DDT	ND		ug/l	0.040	0.004	1
Endosulfan I	ND		ug/l	0.020	0.003	1
Endosulfan II	ND		ug/l	0.040	0.005	1
Endosulfan sulfate	ND		ug/l	0.040	0.005	1
Methoxychlor	ND		ug/l	0.200	0.007	1
Toxaphene	ND		ug/l	0.200	0.063	1
cis-Chlordane	ND		ug/l	0.020	0.007	1
trans-Chlordane	ND		ug/l	0.020	0.006	1
Chlordane	ND		ug/l	0.200	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	70		30-150	B



**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-05  
**Client ID:** MW-5\_042313\_DUP  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/26/13 14:48  
**Analyst:** BW

**Date Collected:** 04/23/13 13:10  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 02:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/26/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	0.005	1
Lindane	ND		ug/l	0.020	0.004	1
Alpha-BHC	ND		ug/l	0.020	0.004	1
Beta-BHC	ND		ug/l	0.020	0.006	1
Heptachlor	ND		ug/l	0.020	0.003	1
Aldrin	ND		ug/l	0.020	0.002	1
Heptachlor epoxide	ND		ug/l	0.020	0.004	1
Endrin	ND		ug/l	0.040	0.004	1
Endrin ketone	ND		ug/l	0.040	0.005	1
Dieldrin	ND		ug/l	0.040	0.004	1
4,4'-DDE	ND		ug/l	0.040	0.004	1
4,4'-DDD	ND		ug/l	0.040	0.005	1
4,4'-DDT	ND		ug/l	0.040	0.004	1
Endosulfan I	ND		ug/l	0.020	0.003	1
Endosulfan II	ND		ug/l	0.040	0.005	1
Endosulfan sulfate	ND		ug/l	0.040	0.005	1
Methoxychlor	ND		ug/l	0.200	0.007	1
Toxaphene	ND		ug/l	0.200	0.063	1
cis-Chlordane	ND		ug/l	0.020	0.007	1
trans-Chlordane	ND		ug/l	0.020	0.006	1
Chlordane	ND		ug/l	0.200	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	65		30-150	B

**Project Name:** 514 W 27TH ST NYC**Lab Number:** L1307222**Project Number:** E040**Report Date:** 04/30/13**SAMPLE RESULTS**

**Lab ID:** L1307222-06  
**Client ID:** FIELD BLANK  
**Sample Location:** 514 W 27TH ST NYC  
**Matrix:** Water  
**Analytical Method:** 1,8081B  
**Analytical Date:** 04/26/13 15:01  
**Analyst:** BW

**Date Collected:** 04/23/13 00:00  
**Date Received:** 04/23/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 04/25/13 02:03  
**Cleanup Method1:** EPA 3620B  
**Cleanup Date1:** 04/26/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	0.005	1
Lindane	ND		ug/l	0.020	0.004	1
Alpha-BHC	ND		ug/l	0.020	0.004	1
Beta-BHC	ND		ug/l	0.020	0.006	1
Heptachlor	ND		ug/l	0.020	0.003	1
Aldrin	ND		ug/l	0.020	0.002	1
Heptachlor epoxide	ND		ug/l	0.020	0.004	1
Endrin	ND		ug/l	0.040	0.004	1
Endrin ketone	ND		ug/l	0.040	0.005	1
Dieldrin	ND		ug/l	0.040	0.004	1
4,4'-DDE	ND		ug/l	0.040	0.004	1
4,4'-DDD	ND		ug/l	0.040	0.005	1
4,4'-DDT	ND		ug/l	0.040	0.004	1
Endosulfan I	ND		ug/l	0.020	0.003	1
Endosulfan II	ND		ug/l	0.040	0.005	1
Endosulfan sulfate	ND		ug/l	0.040	0.005	1
Methoxychlor	ND		ug/l	0.200	0.007	1
Toxaphene	ND		ug/l	0.200	0.063	1
cis-Chlordane	ND		ug/l	0.020	0.007	1
trans-Chlordane	ND		ug/l	0.020	0.006	1
Chlordane	ND		ug/l	0.200	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 04/26/13 13:07  
 Analyst: BW

Extraction Method: EPA 3510C  
 Extraction Date: 04/25/13 02:03  
 Cleanup Method1: EPA 3620B  
 Cleanup Date1: 04/26/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04-06 Batch: WG603860-1					
Delta-BHC	ND		ug/l	0.020	0.005
Lindane	ND		ug/l	0.020	0.004
Alpha-BHC	ND		ug/l	0.020	0.004
Beta-BHC	ND		ug/l	0.020	0.006
Heptachlor	ND		ug/l	0.020	0.003
Aldrin	ND		ug/l	0.020	0.002
Heptachlor epoxide	ND		ug/l	0.020	0.004
Endrin	ND		ug/l	0.040	0.004
Endrin ketone	ND		ug/l	0.040	0.005
Dieldrin	ND		ug/l	0.040	0.004
4,4'-DDE	ND		ug/l	0.040	0.004
4,4'-DDD	ND		ug/l	0.040	0.005
4,4'-DDT	ND		ug/l	0.040	0.004
Endosulfan I	ND		ug/l	0.020	0.003
Endosulfan II	ND		ug/l	0.040	0.005
Endosulfan sulfate	ND		ug/l	0.040	0.005
Methoxychlor	ND		ug/l	0.200	0.007
Toxaphene	ND		ug/l	0.200	0.063
cis-Chlordane	ND		ug/l	0.020	0.007
trans-Chlordane	ND		ug/l	0.020	0.006
Chlordane	ND		ug/l	0.200	0.046

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	91		30-150	B

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04-06 Batch: WG603860-2 WG603860-3								
Delta-BHC	98		105		30-150	7		20
Lindane	100		115		30-150	14		20
Alpha-BHC	104		110		30-150	6		20
Beta-BHC	110		114		30-150	4		20
Heptachlor	104		115		30-150	10		20
Aldrin	100		112		30-150	12		20
Heptachlor epoxide	104		113		30-150	8		20
Endrin	114		126		30-150	10		20
Endrin ketone	85		94		30-150	10		20
Dieldrin	105		116		30-150	10		20
4,4'-DDE	103		112		30-150	8		20
4,4'-DDD	95		105		30-150	10		20
4,4'-DDT	102		112		30-150	9		20
Endosulfan I	103		113		30-150	9		20
Endosulfan II	92		101		30-150	10		20
Endosulfan sulfate	65		80		30-150	21	Q	20
Methoxychlor	109		120		30-150	10		20
cis-Chlordane	104		114		30-150	9		20
trans-Chlordane	107		115		30-150	7		20

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04-06 Batch: WG603860-2 WG603860-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		101		30-150	A
Decachlorobiphenyl	79		51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		88		30-150	B
Decachlorobiphenyl	93		65		30-150	B

## METALS

Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-01

Date Collected: 04/23/13 12:05

Client ID: MW-2\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	13.8		mg/l	1.00	0.200	100	04/24/13 08:03	04/24/13 14:41	EPA 3005A	1,6020A	AK
Antimony, Total	0.00064		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00608		mg/l	0.00050	0.00020	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Barium, Total	0.3044		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Beryllium, Total	0.00088		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Cadmium, Total	0.00017	J	mg/l	0.00050	0.00005	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Calcium, Total	138.		mg/l	1.00	0.320	10	04/24/13 08:03	04/24/13 14:28	EPA 3005A	1,6020A	AK
Chromium, Total	0.07450		mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Cobalt, Total	0.01185		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Copper, Total	0.04860		mg/l	0.00100	0.00010	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Iron, Total	18.8		mg/l	0.0500	0.0130	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Lead, Total	0.03486		mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Magnesium, Total	107.		mg/l	1.00	0.230	10	04/24/13 08:03	04/24/13 14:28	EPA 3005A	1,6020A	AK
Manganese, Total	1.460		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 14:28	EPA 3005A	1,6020A	AK
Mercury, Total	0.00009	J	mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 13:44	EPA 7470A	1,7470A	JH
Nickel, Total	0.07195		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Potassium, Total	40.4		mg/l	0.100	0.0270	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Selenium, Total	0.00676		mg/l	0.00500	0.00030	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Sodium, Total	137.		mg/l	1.50	0.150	10	04/24/13 08:03	04/24/13 14:28	EPA 3005A	1,6020A	AK
Thallium, Total	0.00004	J	mg/l	0.00050	0.00003	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Vanadium, Total	0.02534		mg/l	0.00500	0.00010	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK
Zinc, Total	0.04749		mg/l	0.01000	0.00120	1	04/24/13 08:03	04/24/13 14:31	EPA 3005A	1,6020A	AK

## Dissolved Metals - Westborough Lab

Aluminum, Dissolved	0.534		mg/l	0.100	0.0200	10	04/24/13 15:00	04/30/13 10:45	NA	1,6020A	AK
Antimony, Dissolved	0.00066		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Arsenic, Dissolved	0.00183		mg/l	0.00050	0.00020	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Barium, Dissolved	0.1331		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-01

Date Collected: 04/23/13 12:05

Client ID: MW-2\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	124.		mg/l	1.00	0.320	10	04/24/13 15:00	04/30/13 10:45	NA	1,6020A	AK
Chromium, Dissolved	0.00517		mg/l	0.00100	0.00020	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Cobalt, Dissolved	0.00067		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Copper, Dissolved	0.00443		mg/l	0.00100	0.00010	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Iron, Dissolved	1.06		mg/l	0.0500	0.0130	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Lead, Dissolved	0.00243		mg/l	0.00100	0.00020	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Magnesium, Dissolved	99.4		mg/l	1.00	0.230	10	04/24/13 15:00	04/30/13 10:45	NA	1,6020A	AK
Manganese, Dissolved	0.09378		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 12:40	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.00776		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Potassium, Dissolved	37.0		mg/l	0.100	0.0270	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Selenium, Dissolved	0.00667		mg/l	0.00500	0.00030	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Silver, Dissolved	0.00059	J	mg/l	0.00100	0.00010	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Sodium, Dissolved	133.		mg/l	1.00	0.150	10	04/24/13 15:00	04/30/13 10:45	NA	1,6020A	AK
Thallium, Dissolved	0.00003	J	mg/l	0.00050	0.00003	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Vanadium, Dissolved	0.00566		mg/l	0.00500	0.00010	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK
Zinc, Dissolved	0.00508	J	mg/l	0.01000	0.00120	1	04/24/13 15:00	04/30/13 10:38	NA	1,6020A	AK





Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-02  
 Client ID: MW-3\_042313  
 Sample Location: 514 W 27TH ST NYC  
 Matrix: Water

Date Collected: 04/23/13 15:20  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2.91		mg/l	0.100	0.0200	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Antimony, Total	0.00106	J	mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00219	J	mg/l	0.00500	0.00200	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Barium, Total	0.1667		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00500	0.00050	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Calcium, Total	625.		mg/l	10.0	3.20	100	04/24/13 08:03	04/24/13 14:48	EPA 3005A	1,6020A	AK
Chromium, Total	0.03095		mg/l	0.01000	0.00200	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Cobalt, Total	0.01199		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Copper, Total	0.02304		mg/l	0.01000	0.00100	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Iron, Total	6.08		mg/l	0.500	0.130	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Lead, Total	0.01458		mg/l	0.01000	0.00200	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Magnesium, Total	60.9		mg/l	1.00	0.230	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Manganese, Total	0.1636		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 13:46	EPA 7470A	1,7470A	JH
Nickel, Total	0.02950		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Potassium, Total	91.0		mg/l	1.00	0.270	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Selenium, Total	0.0455	J	mg/l	0.0500	0.00300	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Sodium, Total	550.		mg/l	15.0	1.50	100	04/24/13 08:03	04/24/13 14:48	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00500	0.00030	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Vanadium, Total	0.00756	J	mg/l	0.05000	0.00100	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK
Zinc, Total	0.04048	J	mg/l	0.1000	0.01200	10	04/24/13 08:03	04/24/13 14:45	EPA 3005A	1,6020A	AK

## Dissolved Metals - Westborough Lab

Aluminum, Dissolved	0.109		mg/l	0.100	0.0200	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Antimony, Dissolved	0.00119	J	mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Arsenic, Dissolved	ND		mg/l	0.00500	0.00200	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Barium, Dissolved	0.04859		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00500	0.00050	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-02

Date Collected: 04/23/13 15:20

Client ID: MW-3\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	618.		mg/l	10.0	3.20	100	04/24/13 15:00	04/30/13 10:48	NA	1,6020A	AK
Chromium, Dissolved	0.00520	J	mg/l	0.01000	0.00200	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Cobalt, Dissolved	0.00797		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Copper, Dissolved	0.00949	J	mg/l	0.01000	0.00100	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Iron, Dissolved	0.294	J	mg/l	0.500	0.130	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.01000	0.00200	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Magnesium, Dissolved	67.6		mg/l	1.00	0.230	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Manganese, Dissolved	0.05669		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 12:42	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.02323		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Potassium, Dissolved	94.2		mg/l	1.00	0.270	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Selenium, Dissolved	0.0470	J	mg/l	0.0500	0.00300	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.01000	0.00100	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Sodium, Dissolved	697.		mg/l	10.0	1.50	100	04/24/13 15:00	04/30/13 10:48	NA	1,6020A	AK
Thallium, Dissolved	0.00318	J	mg/l	0.00500	0.00030	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.05000	0.00100	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK
Zinc, Dissolved	ND		mg/l	0.1000	0.01200	10	04/24/13 15:00	04/30/13 10:58	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-03  
 Client ID: MW-4\_042313  
 Sample Location: 514 W 27TH ST NYC  
 Matrix: Water

Date Collected: 04/23/13 14:15  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.532		mg/l	0.100	0.0200	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Antimony, Total	0.00303	J	mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Arsenic, Total	ND		mg/l	0.00500	0.00200	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Barium, Total	0.06345		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00500	0.00050	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Calcium, Total	636.		mg/l	10.0	3.20	100	04/24/13 08:03	04/24/13 13:40	EPA 3005A	1,6020A	AK
Chromium, Total	0.01599		mg/l	0.01000	0.00200	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Cobalt, Total	0.00703		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Copper, Total	0.01076		mg/l	0.01000	0.00100	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Iron, Total	1.29		mg/l	0.500	0.130	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Lead, Total	0.00351	J	mg/l	0.01000	0.00200	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Magnesium, Total	61.7		mg/l	1.00	0.230	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Manganese, Total	0.03878		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 13:47	EPA 7470A	1,7470A	JH
Nickel, Total	0.01597		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Potassium, Total	93.7		mg/l	1.00	0.270	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Selenium, Total	0.0448	J	mg/l	0.0500	0.00300	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Sodium, Total	556.		mg/l	15.0	1.50	100	04/24/13 08:03	04/24/13 13:40	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00500	0.00030	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Vanadium, Total	0.00180	J	mg/l	0.05000	0.00100	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK
Zinc, Total	0.02339	J	mg/l	0.1000	0.01200	10	04/24/13 08:03	04/24/13 13:37	EPA 3005A	1,6020A	AK

## Dissolved Metals - Westborough Lab

Aluminum, Dissolved	0.113		mg/l	0.100	0.0200	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Antimony, Dissolved	0.00214	J	mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Arsenic, Dissolved	ND		mg/l	0.00500	0.00200	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Barium, Dissolved	0.04606		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00500	0.00050	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-03

Date Collected: 04/23/13 14:15

Client ID: MW-4\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	580.		mg/l	10.0	3.20	100	04/24/13 15:00	04/30/13 09:42	NA	1,6020A	AK
Chromium, Dissolved	0.00290	J	mg/l	0.01000	0.00200	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Cobalt, Dissolved	0.00619		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Copper, Dissolved	0.00724	J	mg/l	0.01000	0.00100	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Iron, Dissolved	0.316	J	mg/l	0.500	0.130	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.01000	0.00200	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Magnesium, Dissolved	65.0		mg/l	1.00	0.230	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Manganese, Dissolved	0.02611		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Mercury, Dissolved	0.00014	J	mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 12:44	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.01131		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Potassium, Dissolved	94.8		mg/l	1.00	0.270	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Selenium, Dissolved	0.0482	J	mg/l	0.0500	0.00300	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.01000	0.00100	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Sodium, Dissolved	592.		mg/l	10.0	1.50	100	04/24/13 15:00	04/30/13 09:42	NA	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.00500	0.00030	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.05000	0.00100	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK
Zinc, Dissolved	0.02044	J	mg/l	0.1000	0.01200	10	04/24/13 15:00	04/30/13 09:45	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-04  
 Client ID: MW-5\_042313  
 Sample Location: 514 W 27TH ST NYC  
 Matrix: Water

Date Collected: 04/23/13 13:10  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	19.9		mg/l	1.00	0.200	100	04/24/13 08:03	04/24/13 14:58	EPA 3005A	1,6020A	AK
Antimony, Total	0.00071		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Arsenic, Total	0.01039		mg/l	0.00050	0.00020	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Barium, Total	0.2478		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Beryllium, Total	0.00115		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Cadmium, Total	0.00020	J	mg/l	0.00050	0.00005	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Calcium, Total	205.		mg/l	1.00	0.320	10	04/24/13 08:03	04/24/13 14:51	EPA 3005A	1,6020A	AK
Chromium, Total	0.1144		mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Cobalt, Total	0.01670		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Copper, Total	0.04409		mg/l	0.00100	0.00010	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Iron, Total	28.9		mg/l	0.0500	0.0130	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Lead, Total	0.05121		mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Magnesium, Total	54.3		mg/l	1.00	0.230	10	04/24/13 08:03	04/24/13 14:51	EPA 3005A	1,6020A	AK
Manganese, Total	3.509		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 14:51	EPA 3005A	1,6020A	AK
Mercury, Total	0.00007	J	mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 13:53	EPA 7470A	1,7470A	JH
Nickel, Total	0.1413		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Potassium, Total	46.4		mg/l	0.100	0.0270	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Selenium, Total	0.00300	J	mg/l	0.00500	0.00030	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Silver, Total	0.00071		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Sodium, Total	184.		mg/l	1.50	0.150	10	04/24/13 08:03	04/24/13 14:51	EPA 3005A	1,6020A	AK
Thallium, Total	0.00008	J	mg/l	0.00050	0.00003	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Vanadium, Total	0.04009		mg/l	0.00500	0.00010	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Zinc, Total	0.05836		mg/l	0.01000	0.00120	1	04/24/13 08:03	04/24/13 14:55	EPA 3005A	1,6020A	AK
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.717		mg/l	0.100	0.0200	10	04/24/13 15:00	04/30/13 11:01	NA	1,6020A	AK
Antimony, Dissolved	0.00063		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Arsenic, Dissolved	0.00214		mg/l	0.00050	0.00020	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Barium, Dissolved	0.08919		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-04

Date Collected: 04/23/13 13:10

Client ID: MW-5\_042313

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	205.		mg/l	1.00	0.320	10	04/24/13 15:00	04/30/13 11:01	NA	1,6020A	AK
Chromium, Dissolved	0.01067		mg/l	0.00100	0.00020	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Cobalt, Dissolved	0.00196		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Copper, Dissolved	0.00426		mg/l	0.00100	0.00010	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Iron, Dissolved	1.39		mg/l	0.0500	0.0130	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Lead, Dissolved	0.00361		mg/l	0.00100	0.00020	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Magnesium, Dissolved	53.6		mg/l	1.00	0.230	10	04/24/13 15:00	04/30/13 11:01	NA	1,6020A	AK
Manganese, Dissolved	2.193		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 11:01	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 12:53	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.02342		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Potassium, Dissolved	43.3		mg/l	0.100	0.0270	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Selenium, Dissolved	0.00134	J	mg/l	0.00500	0.00030	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Silver, Dissolved	0.00052		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Sodium, Dissolved	185.		mg/l	1.00	0.150	10	04/24/13 15:00	04/30/13 11:01	NA	1,6020A	AK
Thallium, Dissolved	0.00007	J	mg/l	0.00050	0.00003	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Vanadium, Dissolved	0.00727		mg/l	0.00500	0.00010	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK
Zinc, Dissolved	0.00562	J	mg/l	0.01000	0.00120	1	04/24/13 15:00	04/30/13 11:05	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-05

Date Collected: 04/23/13 13:10

Client ID: MW-5\_042313\_DUP

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	11.3		mg/l	1.00	0.200	100	04/24/13 08:03	04/24/13 15:08	EPA 3005A	1,6020A	AK
Antimony, Total	0.00058		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00814		mg/l	0.00050	0.00020	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Barium, Total	0.1866		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Beryllium, Total	0.00073		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Cadmium, Total	0.00013	J	mg/l	0.00050	0.00005	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Calcium, Total	220.		mg/l	1.00	0.320	10	04/24/13 08:03	04/24/13 15:02	EPA 3005A	1,6020A	AK
Chromium, Total	0.06967		mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Cobalt, Total	0.01054		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Copper, Total	0.03064		mg/l	0.00100	0.00010	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Iron, Total	17.3		mg/l	0.0500	0.0130	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Lead, Total	0.03602		mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Magnesium, Total	58.7		mg/l	1.00	0.230	10	04/24/13 08:03	04/24/13 15:02	EPA 3005A	1,6020A	AK
Manganese, Total	3.124		mg/l	0.00500	0.00100	10	04/24/13 08:03	04/24/13 15:02	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 13:59	EPA 7470A	1,7470A	JH
Nickel, Total	0.09410		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Potassium, Total	46.7		mg/l	1.00	0.270	10	04/24/13 08:03	04/24/13 15:02	EPA 3005A	1,6020A	AK
Selenium, Total	0.00207	J	mg/l	0.00500	0.00030	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Silver, Total	0.00070		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Sodium, Total	199.		mg/l	1.50	0.150	10	04/24/13 08:03	04/24/13 15:02	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Vanadium, Total	0.02461		mg/l	0.00500	0.00010	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Zinc, Total	0.03644		mg/l	0.01000	0.00120	1	04/24/13 08:03	04/24/13 15:05	EPA 3005A	1,6020A	AK
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.540		mg/l	0.100	0.0200	10	04/24/13 15:00	04/30/13 11:08	NA	1,6020A	AK
Antimony, Dissolved	0.00053		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Arsenic, Dissolved	0.00197		mg/l	0.00050	0.00020	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Barium, Dissolved	0.08139		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-05

Date Collected: 04/23/13 13:10

Client ID: MW-5\_042313\_DUP

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	196.		mg/l	1.00	0.320	10	04/24/13 15:00	04/30/13 11:08	NA	1,6020A	AK
Chromium, Dissolved	0.00719		mg/l	0.00100	0.00020	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Cobalt, Dissolved	0.00151		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Copper, Dissolved	0.00410		mg/l	0.00100	0.00010	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Iron, Dissolved	1.06		mg/l	0.0500	0.0130	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Lead, Dissolved	0.00249		mg/l	0.00100	0.00020	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Magnesium, Dissolved	52.1		mg/l	1.00	0.230	10	04/24/13 15:00	04/30/13 11:08	NA	1,6020A	AK
Manganese, Dissolved	1.788		mg/l	0.00500	0.00100	10	04/24/13 15:00	04/30/13 11:08	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 12:55	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.01925		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Potassium, Dissolved	44.3		mg/l	0.100	0.0270	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Selenium, Dissolved	0.00133	J	mg/l	0.00500	0.00030	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Silver, Dissolved	0.00042	J	mg/l	0.00100	0.00010	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Sodium, Dissolved	182.		mg/l	1.00	0.150	10	04/24/13 15:00	04/30/13 11:08	NA	1,6020A	AK
Thallium, Dissolved	0.00005	J	mg/l	0.00050	0.00003	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Vanadium, Dissolved	0.00326	J	mg/l	0.00500	0.00010	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK
Zinc, Dissolved	0.00402	J	mg/l	0.01000	0.00120	1	04/24/13 15:00	04/30/13 11:11	NA	1,6020A	AK





Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-06  
 Client ID: FIELD BLANK  
 Sample Location: 514 W 27TH ST NYC  
 Matrix: Water

Date Collected: 04/23/13 00:00  
 Date Received: 04/23/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.00212	J	mg/l	0.0100	0.00200	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Antimony, Total	0.00024	J	mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Barium, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00050	0.00005	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Calcium, Total	0.0682	J	mg/l	0.100	0.0320	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Chromium, Total	0.00021	J	mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Copper, Total	ND		mg/l	0.00100	0.00010	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Iron, Total	ND		mg/l	0.0500	0.0130	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.0230	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Manganese, Total	0.00010	J	mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 14:01	EPA 7470A	1,7470A	JH
Nickel, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.0270	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.00500	0.00030	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Sodium, Total	ND		mg/l	0.150	0.0150	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Zinc, Total	0.00142	J	mg/l	0.01000	0.00120	1	04/24/13 08:03	04/24/13 13:27	EPA 3005A	1,6020A	AK
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Antimony, Dissolved	ND		mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Arsenic, Dissolved	ND		mg/l	0.00050	0.00020	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Barium, Dissolved	0.00020	J	mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## SAMPLE RESULTS

Lab ID: L1307222-06

Date Collected: 04/23/13 00:00

Client ID: FIELD BLANK

Date Received: 04/23/13

Sample Location: 514 W 27TH ST NYC

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	0.0415	J	mg/l	0.100	0.0320	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Chromium, Dissolved	ND		mg/l	0.00100	0.00020	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Cobalt, Dissolved	ND		mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Copper, Dissolved	ND		mg/l	0.00100	0.00010	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Iron, Dissolved	ND		mg/l	0.0500	0.0130	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Magnesium, Dissolved	ND		mg/l	0.100	0.0230	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Manganese, Dissolved	0.00030	J	mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 12:57	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.00010	J	mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	04/27/13 11:22	04/29/13 16:07	NA	1,6020A	BM
Sodium, Dissolved	0.294		mg/l	0.100	0.0150	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK
Zinc, Dissolved	0.02283		mg/l	0.01500	0.00120	1	04/27/13 11:22	04/27/13 12:56	NA	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG603571-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Antimony, Total	0.00020	J	mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Barium, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00050	0.00005	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Calcium, Total	0.0454	J	mg/l	0.100	0.0320	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Chromium, Total	ND		mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Copper, Total	ND		mg/l	0.00100	0.00010	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Iron, Total	ND		mg/l	0.0500	0.0130	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Lead, Total	ND		mg/l	0.00100	0.00020	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.0230	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Manganese, Total	0.00011	J	mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Nickel, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.0270	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Selenium, Total	ND		mg/l	0.00500	0.00030	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Sodium, Total	ND		mg/l	0.150	0.0150	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK
Zinc, Total	ND		mg/l	0.01000	0.00120	1	04/24/13 08:03	04/24/13 13:24	1,6020A	AK

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-06 Batch: WG604141-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 12:29	1,7470A	JH



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG604149-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/26/13 07:00	04/26/13 13:40	1,7470A	JH

### Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 06 Batch: WG604339-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Antimony, Dissolved	ND		mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Arsenic, Dissolved	ND		mg/l	0.00050	0.00020	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Chromium, Dissolved	ND		mg/l	0.00100	0.00020	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Cobalt, Dissolved	ND		mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Copper, Dissolved	ND		mg/l	0.00100	0.00010	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Iron, Dissolved	ND		mg/l	0.0500	0.0130	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Magnesium, Dissolved	ND		mg/l	0.100	0.0230	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Manganese, Dissolved	ND		mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Nickel, Dissolved	ND		mg/l	0.00050	0.00010	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Silver, Dissolved	0.00015	J	mg/l	0.00040	0.00010	1	04/27/13 11:22	04/29/13 15:54	1,6020A	BM
Sodium, Dissolved	0.0376	J	mg/l	0.100	0.0150	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Thallium, Dissolved	0.00003	J	mg/l	0.00050	0.00003	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK



Project Name: 514 W 27TH ST NYC

Lab Number: L1307222

Project Number: E040

Report Date: 04/30/13

## Method Blank Analysis Batch Quality Control

Zinc, Dissolved	0.01498	J	mg/l	0.01500	0.00120	1	04/27/13 11:22	04/27/13 12:49	1,6020A	AK
-----------------	---------	---	------	---------	---------	---	----------------	----------------	---------	----

### Prep Information

Digestion Method: NA

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-05 Batch: WG604841-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Antimony, Dissolved	ND		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Arsenic, Dissolved	0.00029	J	mg/l	0.00050	0.00020	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Chromium, Dissolved	ND		mg/l	0.00100	0.00020	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Cobalt, Dissolved	ND		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Copper, Dissolved	ND		mg/l	0.00100	0.00010	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Iron, Dissolved	ND		mg/l	0.0500	0.0130	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Magnesium, Dissolved	ND		mg/l	0.100	0.0230	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Manganese, Dissolved	ND		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Nickel, Dissolved	ND		mg/l	0.00050	0.00010	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Silver, Dissolved	0.00062	J	mg/l	0.00100	0.00010	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Sodium, Dissolved	ND		mg/l	0.100	0.0150	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Thallium, Dissolved	0.00019	J	mg/l	0.00050	0.00003	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK
Zinc, Dissolved	ND		mg/l	0.01000	0.00120	1	04/24/13 15:00	04/30/13 09:32	1,6020A	AK

### Prep Information

Digestion Method: NA



# Lab Control Sample Analysis

## Batch Quality Control

Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG603571-2								
Aluminum, Total	107		-		80-120	-		
Antimony, Total	92		-		80-120	-		
Arsenic, Total	109		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	116		-		80-120	-		
Cadmium, Total	110		-		80-120	-		
Calcium, Total	96		-		80-120	-		
Chromium, Total	103		-		80-120	-		
Cobalt, Total	102		-		80-120	-		
Copper, Total	104		-		80-120	-		
Iron, Total	102		-		80-120	-		
Lead, Total	108		-		80-120	-		
Magnesium, Total	93		-		80-120	-		
Manganese, Total	102		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Potassium, Total	98		-		80-120	-		
Selenium, Total	111		-		80-120	-		
Silver, Total	103		-		80-120	-		
Sodium, Total	91		-		80-120	-		
Thallium, Total	98		-		80-120	-		
Vanadium, Total	105		-		80-120	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG603571-2					
Zinc, Total	111	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG604141-2					
Mercury, Dissolved	88	-	70-130	-	
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG604149-2					
Mercury, Total	81	-	80-120	-	

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 06 Batch: WG604339-2					
Aluminum, Dissolved	107	-	80-120	-	
Antimony, Dissolved	94	-	80-120	-	
Arsenic, Dissolved	102	-	80-120	-	
Barium, Dissolved	98	-	80-120	-	
Beryllium, Dissolved	111	-	80-120	-	
Cadmium, Dissolved	108	-	80-120	-	
Calcium, Dissolved	99	-	80-120	-	
Chromium, Dissolved	100	-	80-120	-	
Cobalt, Dissolved	102	-	80-120	-	
Copper, Dissolved	105	-	80-120	-	
Iron, Dissolved	97	-	80-120	-	
Lead, Dissolved	103	-	80-120	-	
Magnesium, Dissolved	100	-	80-120	-	
Manganese, Dissolved	100	-	80-120	-	
Nickel, Dissolved	103	-	80-120	-	
Potassium, Dissolved	105	-	80-120	-	
Selenium, Dissolved	108	-	80-120	-	
Silver, Dissolved	101	-	80-120	-	
Sodium, Dissolved	107	-	80-120	-	
Thallium, Dissolved	108	-	80-120	-	
Vanadium, Dissolved	103	-	80-120	-	



**Lab Control Sample Analysis**  
Batch Quality Control**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307222**Report Date:** 04/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 06 Batch: WG604339-2					
Zinc, Dissolved	110	-	80-120	-	

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG604841-2					
Aluminum, Dissolved	106	-	80-120	-	
Antimony, Dissolved	92	-	80-120	-	
Arsenic, Dissolved	110	-	80-120	-	
Barium, Dissolved	97	-	80-120	-	
Beryllium, Dissolved	109	-	80-120	-	
Cadmium, Dissolved	106	-	80-120	-	
Calcium, Dissolved	101	-	80-120	-	
Chromium, Dissolved	101	-	80-120	-	
Cobalt, Dissolved	101	-	80-120	-	
Copper, Dissolved	103	-	80-120	-	
Iron, Dissolved	101	-	80-120	-	
Lead, Dissolved	100	-	80-120	-	
Magnesium, Dissolved	103	-	80-120	-	
Manganese, Dissolved	98	-	80-120	-	
Nickel, Dissolved	102	-	80-120	-	
Potassium, Dissolved	108	-	80-120	-	
Selenium, Dissolved	112	-	80-120	-	
Silver, Dissolved	80	-	80-120	-	
Sodium, Dissolved	111	-	80-120	-	
Thallium, Dissolved	95	-	80-120	-	
Vanadium, Dissolved	104	-	80-120	-	

**Lab Control Sample Analysis**  
Batch Quality Control**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307222**Report Date:** 04/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG604841-2					
Zinc, Dissolved	109	-	80-120	-	

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG603571-3 WG603571-4 QC Sample: L1307222-03 Client ID: MW-4_042313												
Aluminum, Total	0.532	2	2.82	114		2.72	109		80-120	4		20
Antimony, Total	0.00303J	0.5	0.4633	93		0.4919	98		80-120	6		20
Arsenic, Total	ND	0.12	0.1343	112		0.1401	117		80-120	4		20
Barium, Total	0.06345	2	2.089	101		2.147	104		80-120	3		20
Beryllium, Total	ND	0.05	0.05090	102		0.05021	100		80-120	1		20
Cadmium, Total	ND	0.51	0.5173	101		0.5276	103		80-120	2		20
Calcium, Total	636.	10	696	600	Q	674	380	Q	80-120	3		20
Chromium, Total	0.01599	0.2	0.2153	100		0.2193	102		80-120	2		20
Cobalt, Total	0.00703	0.5	0.5146	102		0.5221	103		80-120	1		20
Copper, Total	0.01076	0.25	0.2679	103		0.2717	104		80-120	1		20
Iron, Total	1.29	1	2.28	99		2.29	100		80-120	0		20
Lead, Total	0.00351J	0.51	0.5476	107		0.5640	110		80-120	3		20
Magnesium, Total	61.7	10	78.0	163	Q	76.4	147	Q	80-120	2		20
Manganese, Total	0.03878	0.5	0.5339	99		0.5394	100		80-120	1		20
Nickel, Total	0.01597	0.5	0.5165	100		0.5339	104		80-120	3		20
Potassium, Total	93.7	10	111	173	Q	110	163	Q	80-120	1		20
Selenium, Total	0.0448J	0.12	0.166	138	Q	0.167	139	Q	80-120	1		20
Silver, Total	ND	0.05	0.05056	101		0.05244	105		80-120	4		20
Sodium, Total	556.	10	597	410	Q	591	350	Q	80-120	1		20
Thallium, Total	ND	0.12	0.1168	97		0.1204	100		80-120	3		20
Vanadium, Total	0.00180J	0.5	0.5386	108		0.5541	111		80-120	3		20

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG603571-3 WG603571-4 QC Sample: L1307222-03 Client ID: MW-4_042313									
Zinc, Total	0.02339J	0.5	0.5259	105	0.5324	106	80-120	1	20
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG604141-3 WG604141-4 QC Sample: L1307222-03 Client ID: MW-4_042313									
Mercury, Dissolved	0.00014J	0.001	0.00130	131	Q	0.00130	131	Q	70-130
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG604149-3 WG604149-4 QC Sample: L1307222-01 Client ID: MW-2_042313									
Mercury, Total	0.00009J	0.001	0.00128	128	0.00128	128	70-130	0	20

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** 514 W 27TH ST NYC

**Project Number:** E040

**Lab Number:** L1307222

**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 06 QC Batch ID: WG604339-4 QC Sample: L1307222-06 Client ID: FIELD BLANK									
Aluminum, Dissolved	ND	2	2.17	108	-	-	80-120	-	20
Antimony, Dissolved	ND	0.5	0.4802	96	-	-	80-120	-	20
Arsenic, Dissolved	ND	0.12	0.1237	103	-	-	80-120	-	20
Barium, Dissolved	0.00020J	2	1.948	97	-	-	80-120	-	20
Beryllium, Dissolved	ND	0.05	0.05590	112	-	-	80-120	-	20
Cadmium, Dissolved	ND	0.51	0.5476	107	-	-	80-120	-	20
Calcium, Dissolved	0.0415J	10	10.0	100	-	-	80-120	-	20
Chromium, Dissolved	ND	0.2	0.1978	99	-	-	80-120	-	20
Cobalt, Dissolved	ND	0.5	0.5078	102	-	-	80-120	-	20
Copper, Dissolved	ND	0.25	0.2603	104	-	-	80-120	-	20
Iron, Dissolved	ND	1	0.966	97	-	-	80-120	-	20
Lead, Dissolved	ND	0.51	0.5248	103	-	-	80-120	-	20
Magnesium, Dissolved	ND	10	10.2	102	-	-	80-120	-	20
Manganese, Dissolved	0.00030J	0.5	0.4953	99	-	-	80-120	-	20
Nickel, Dissolved	0.00010J	0.5	0.5099	102	-	-	80-120	-	20
Potassium, Dissolved	ND	10	10.6	106	-	-	80-120	-	20
Selenium, Dissolved	ND	0.12	0.133	111	-	-	80-120	-	20
Silver, Dissolved	ND	0.05	0.05225	104	-	-	80-120	-	20
Sodium, Dissolved	0.294	10	11.1	108	-	-	80-120	-	20
Thallium, Dissolved	ND	0.12	0.1281	107	-	-	80-120	-	20
Vanadium, Dissolved	ND	0.5	0.5150	103	-	-	80-120	-	20

**Matrix Spike Analysis**  
Batch Quality Control**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307222**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 06 QC Batch ID: WG604339-4 QC Sample: L1307222-06 Client ID: FIELD BLANK									
Zinc, Dissolved	0.02283	0.5	0.5703	109	-	-	80-120	-	20

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG604841-3 WG604841-4 QC Sample: L1307222-03 Client ID: MW-4_042313											
Aluminum, Dissolved	0.113	2	2.33	111		2.21	105		80-120	5	20
Antimony, Dissolved	0.00214J	0.5	0.3832	77	Q	0.3928	78	Q	80-120	2	20
Arsenic, Dissolved	ND	0.12	0.1323	110		0.1355	113		80-120	2	20
Barium, Dissolved	0.04606	2	2.000	98		2.011	98		80-120	1	20
Beryllium, Dissolved	ND	0.05	0.05293	106		0.04966	99		80-120	6	20
Cadmium, Dissolved	ND	0.51	0.5097	100		0.5175	101		80-120	2	20
Calcium, Dissolved	580.	10	628	480	Q	599	190	Q	80-120	5	20
Chromium, Dissolved	0.00290J	0.2	0.1990	100		0.2006	100		80-120	1	20
Cobalt, Dissolved	0.00619	0.5	0.5038	100		0.5064	100		80-120	1	20
Copper, Dissolved	0.00724J	0.25	0.2622	105		0.2617	105		80-120	0	20
Iron, Dissolved	0.316J	1	1.47	147	Q	1.24	124	Q	80-120	17	20
Lead, Dissolved	ND	0.51	0.5255	103		0.5286	104		80-120	1	20
Magnesium, Dissolved	65.0	10	76.9	119		74.3	93		80-120	3	20
Manganese, Dissolved	0.02611	0.5	0.5057	96		0.5064	96		80-120	0	20
Nickel, Dissolved	0.01131	0.5	0.5080	99		0.5022	98		80-120	1	20
Potassium, Dissolved	94.8	10	106	112		102	72	Q	80-120	4	20
Selenium, Dissolved	0.0482J	0.12	0.168	140	Q	0.169	141	Q	80-120	1	20
Silver, Dissolved	ND	0.05	0.03666	73	Q	0.04016	80		80-120	9	20
Sodium, Dissolved	592.	10	604	120		589	0	Q	80-120	3	20
Thallium, Dissolved	ND	0.12	0.1192	99		0.1189	99		80-120	0	20
Vanadium, Dissolved	ND	0.5	0.5232	105		0.5281	106		80-120	1	20



**Matrix Spike Analysis**  
Batch Quality Control**Project Name:** 514 W 27TH ST NYC**Project Number:** E040**Lab Number:** L1307222**Report Date:** 04/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG604841-3 WG604841-4 QC Sample: L1307222-03 Client ID: MW-4_042313									
Zinc, Dissolved	0.02044J	0.5	0.5121	102	0.5109	102	80-120	0	20

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Lab Number:** L1307222  
**Report Date:** 04/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 06 QC Batch ID: WG604339-3 QC Sample: L1307222-06 Client ID: FIELD BLANK						
Aluminum, Dissolved	ND	ND	mg/l	NC		20
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	ND	ND	mg/l	NC		20
Barium, Dissolved	0.00020J	0.00023J	mg/l	NC		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	0.0415J	0.0371J	mg/l	NC		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Cobalt, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Iron, Dissolved	ND	ND	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	ND	ND	mg/l	NC		20
Manganese, Dissolved	0.00030J	0.00031J	mg/l	NC		20
Nickel, Dissolved	0.00010J	0.00012J	mg/l	NC		20
Potassium, Dissolved	ND	ND	mg/l	NC		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	0.294	0.279	mg/l	5		20
Thallium, Dissolved	ND	ND	mg/l	NC		20

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 06 QC Batch ID: WG604339-3 QC Sample: L1307222-06 Client ID: FIELD BLANK					
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.02283	0.02200	mg/l	4	20
Dissolved Metals - Westborough Lab Associated sample(s): 06 QC Batch ID: WG604339-3 QC Sample: L1307222-06 Client ID: FIELD BLANK					
Silver, Dissolved	ND	ND	mg/l	NC	20

Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal

## Cooler

A	Absent
B	Absent
C	Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307222-01A	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-01B	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-01C	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-01D	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-01E	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-01F	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1307222-01G	Plastic 250ml unpreserved split	C	7	3.8	Y	Absent	-
L1307222-01X	Plastic 250ml HNO3 preserved spl	C	<2	3.8	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1307222-02A	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-02B	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-02C	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days



Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307222-02D	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-02E	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-02F	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1307222-02G	Plastic 250ml unpreserved split	C	7	3.8	Y	Absent	-
L1307222-02X	Plastic 250ml HNO3 preserved spl	C	<2	3.8	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1307222-03A	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-03B	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-03C	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-03D	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-03E	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-03F	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-03G	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-03H	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-03I	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-03J	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-03K	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-03L	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-03M	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-03N	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-03O	Amber 1000ml unpreserved	C	7	3.8	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)

\*Values in parentheses indicate holding time in days



Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307222-03P	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1307222-03Q	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1307222-03R	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1307222-03S	Plastic 250ml unpreserved split	C	7	3.8	Y	Absent	-
L1307222-03T	Plastic 250ml unpreserved split	C	7	3.8	Y	Absent	-
L1307222-03U	Plastic 250ml unpreserved split	C	7	3.8	Y	Absent	-
L1307222-03X	Plastic 250ml HNO3 preserved spl	C	<2	3.8	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)

\*Values in parentheses indicate holding time in days



Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307222-03Y	Plastic 250ml HNO3 preserved spl	C	<2	3.8	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1307222-03Z	Plastic 250ml HNO3 preserved spl	C	<2	3.8	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1307222-04A	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1307222-04B	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1307222-04C	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1307222-04D	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-04E	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-04F	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8081(7)
L1307222-04G	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8081(7)
L1307222-04H	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8082-1200ML(7)
L1307222-04I	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8082-1200ML(7)
L1307222-04J	Plastic 500ml HNO3 preserved	B	<2	2.0	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1307222-04K	Plastic 250ml unpreserved split	B	7	2.0	Y	Absent	-

\*Values in parentheses indicate holding time in days



Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307222-04X	Plastic 250ml HNO3 preserved spl	B	<2	2.0	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1307222-05A	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1307222-05B	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1307222-05C	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1307222-05D	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-05E	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-05F	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8081(7)
L1307222-05G	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8081(7)
L1307222-05H	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8082-1200ML(7)
L1307222-05I	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8082-1200ML(7)
L1307222-05J	Plastic 500ml HNO3 preserved	B	<2	2.0	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1307222-05K	Plastic 250ml unpreserved split	B	7	2.0	Y	Absent	-
L1307222-05X	Plastic 250ml HNO3 preserved spl	B	<2	2.0	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1307222-06A	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1307222-06B	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days





Project Name: 514 W 27TH ST NYC

Project Number: E040

Lab Number: L1307222

Report Date: 04/30/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307222-06C	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1307222-06D	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-06E	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1307222-06F	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8081(7)
L1307222-06G	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8081(7)
L1307222-06H	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8082-1200ML(7)
L1307222-06I	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8082-1200ML(7)
L1307222-06J	Plastic 500ml HNO3 preserved	A	<2	3.6	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1307222-06K	Plastic 250ml unpreserved split	A	7	3.6	Y	Absent	-
L1307222-06X	Plastic 250ml HNO3 preserved spl	A	<2	3.6	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1307222-07A	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1307222-07B	Vial HCl preserved	C	N/A	3.8	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days



**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

**Report Format:** DU Report with "J" Qualifiers



**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

**Data Qualifiers**

due to obvious interference.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers



**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.  
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

*Drinking Water* (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270). )

### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; Colilert, SM9223B; MF-SM9222D.)

*Non-Potable Water (Inorganic Parameters:*, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

*Organic Parameters:* (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. *Microbiology Parameters:* (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

**New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. *Organic Parameters:* 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. *Organic Parameters:* SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. *Organic Parameters:* SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

**New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. *Organic Parameters:* EPA 332, 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. *Organic Parameters:* SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. *Organic Parameters:* SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

**New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.***

*Drinking Water (Inorganic Parameters:* SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

*Non-Potable Water (Inorganic Parameters:* SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. *Organic Parameters:* EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

*Solid & Hazardous Waste (Inorganic Parameters:* EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. *Organic Parameters:* EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

**North Carolina Department of the Environment and Natural Resources** Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO<sub>3</sub>-F, 353.2, 4500P-E, 4500SO<sub>4</sub>-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

**Pennsylvania Department of Environmental Protection** Certificate/Lab ID : 68-03671. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>-B, 4500NO<sub>3</sub>-F, 4500S-D, 4500SO<sub>3</sub>-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH<sub>3</sub>-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commission on Environmental Quality** Certificate/Lab ID: T104704476. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH<sub>3</sub>-H, 4500NO<sub>2</sub>B, 4500P-E, 4500 S<sup>2-</sup> D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID: 460195. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO<sub>3</sub>-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.

*Drinking Water* (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO<sub>3</sub>-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

**The following analytes are not included in our current NELAP/TNI Scope of Accreditation:**

**EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO<sub>2</sub> in a soil matrix, NO<sub>3</sub> in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.





# CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

## Project Information

Project Name: 514 W. 27<sup>TH</sup> ST NYC

Project Location: 514 W 27<sup>TH</sup> ST NYC

Project #: E040

Project Manager: ALANA CARROLL

ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/30/13 Time:

Date Rec'd In Lab: 4/23/13

ALPHA Job #: L1307222

## Report Information - Data Deliverables

☐ FAX ☒ EMAIL  
☒ ADEX ☐ Add'l Deliverables

## Billing Information

☐ Same as Client info PO #:

## Regulatory Requirements/Report Limits

State /Fed Program Criteria

## Client Information

Client: INTEGRAL CONSULTING

Address: 2607 BROADWAY 5<sup>TH</sup> FL

NEW YORK, NY 10007

Phone: 212 (212) 962-4301

Fax: (212) 962-4302

Email: ACARROLL@INTEGRAL-CORP.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS											SAMPLE HANDLING		TOTAL # BOTTLES								
											Filtration_____										
8260B											<input type="checkbox"/> Done										
8270C											<input type="checkbox"/> Not needed										
6010B/7470A											<input type="checkbox"/> Lab to do										
8082											Preservation										
8081A											<input type="checkbox"/> Lab to do										
(Please specify below)																					
Sample Specific Comments																					

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											(Please specify below)	L E S		
		Date	Time															Sample Specific Comments	
07222-01	MW-2_042313	4/23/13	1205	MW	JPL	X	X	X											6
-02	MW-3_042313		1520			X	X	X											6
-03	MW-4_042313		1415			X	X	X											6
	MW-4_042313-MS		1415			X	X	X											6
	MW-4_042313-MS/MSD		1415			X	X	X											6
-04	MW-5_042313		1310			X	X	X	X	X									10
-05	MW-5_042313-DUP		1310			X	X	X	X	X									10
-06	FIELD BLANK		-	=		X	X	X	X	X									10
-07	TRIP BLANK		-	-		X													2

Container Type V A P A A

Preservative B A C A A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time

**DATA USABILITY SUMMARY REPORT**  
**Laboratory Data Package L1306694**  
**April 23, 2013**

## **1.0 General Information**

Martina Litasi of Geosyntec Consultants, Inc. reviewed one laboratory data package from Alpha Analytical (Westborough, MA) for the analysis of soil samples collected April 16, 2013 at the 514 West 27<sup>th</sup> Street property (Site) located in New York, New York. Samples were collected by James L'Esperance of Integral Consulting, Inc., New York, New York (Integral). The data were reviewed for conformance to the requirements of the guidance document EPA National Functional Guidelines for Data Review (EPA NFG) for organic and inorganic compounds and adherence to project objectives outlined in the Site Quality Assurance Project Plan<sup>1</sup> (QAPP).

This Data Usability Summary Report (DUSR) and associated laboratory package is labeled as laboratory project L1306694. The sample analysis Case Narrative (CN) and Sample Delivery Group Form (SDGF) for this data package are provided as part of this DUSR. The sample chain-of-custody (c-o-c) form for the samples is provided near the front of the full Cat. B Laboratory Data Report (LDR).

## **2.0 Intended Use of Data**

The intended use of the data reviewed as part of this DUSR is to provide current data on concentrations of chemicals of concern (COCs) in the soil at the affected Site. All samples were analyzed for:

- EPA Method 8260B – Volatile Organic Compounds (VOCs) by GC/MS;
- EPA Method 8270D – Semi-volatile Organic Compounds (SVOCs) by GC/MS;
- EPA Method 8082A – Polychlorinated Biphenyls (PCBs) by GC;
- EPA Method 8081B – Organochlorine Pesticides (OCPs) by GC;
- EPA Method 6010C – Total Metals;
- EPA Method 7471B – Total Mercury;
- Standard Method 2540G – Total Solids;
- EPA Method 9010C/9012A – Total Cyanide; and
- EPA Method 7196A – Hexavalent Chromium.

The data reviewed as part of this DUSR were validated as described in the EPA NFGs and the results of the review and validation are discussed in this DUSR. The laboratory submittals, documents, and field data that were examined include:

- Reportable and raw data;
- CN and full Cat. B LDR;
- Sample c-o-c forms;
- Site QAPP; and
- Field notes that record the calibration of field instruments, sample collection procedures, and sample handling procedures.

The results of supporting quality control (QC) analyses were summarized in the CN and reported on Forms 2 through 8 (for each method/analysis) in the LDR.

---

<sup>1</sup> Appendix E, Quality Assurance Project Plan for the West 28<sup>th</sup> Street Remedial Investigation Work Plan for the property located at 505 W 27<sup>th</sup> Street, New York, NY 10001, Block 699, Lots 43 and 44, NYSDEC BCP No. C231082. Integral Engineering P.C., February 19, 2013.

### **3.0 Introduction**

A total of two (2) soil samples were analyzed for all compounds listed in Section 2.0. Table 1 lists the sample identifications cross-referenced to laboratory identifications including the date sampled.

### **4.0 Project Objectives**

The project objectives were to allow determination of precision, accuracy, and comparability of soil data. Per the project QAPP, one field duplicate and one field blank are required per 20 samples collected for each matrix. One trip blank is required with each sample delivery group (SDG) of VOC samples. Additionally, one site-specific matrix spike/matrix spike duplicate (MS/MSD) (per 20 samples) will be submitted for all required analyses for each matrix.

Analytical data objectives were not specified in the QAPP; therefore, laboratory and NFG specific criteria will be used and are presented in the following sections.

### **5.0 Data Review and Validation Results**

The following sections include a summary of sample analytical and validation results.

#### **5.1 Analytical Results**

As stated in the CNs, some sample exceptions were noted, and qualified analytical data are listed in Table 2. All soil data were reported on a dry weight basis (percent solids). As summarized in the CNs, none of the laboratory exceptions appear to have a practical impact on the usability of the data for the COCs at the Site; therefore, the laboratory results were accepted, and non-detected (ND) results are reported as less than the value of the reporting limit (RL)/method detection limit (MDL).

#### **5.2 Preservation and Holding Times**

Samples were evaluated for agreement with the c-o-c. All field notes and laboratory sample log-ins were consistent with c-o-cs. As noted in the CN and SDGF, all samples were received in the appropriate containers and in good condition. Sample receipt temperatures were within the acceptance criteria of  $4 \pm 2$  °C. Samples were preserved in the field and prepared and analyzed within holding times specified in the QAPP and SW-846 Table 2-36. There were two discrepancies that are not likely to affect the analytical results but should be noted:

- It was recorded on the SDGF that the sample cooler did not have a custody seal as required per the QAPP. If samples were hand delivered or delivered by laboratory courier, no seals are required.
- It appears that the first two “relinquished by” and first “accepted by” signatures on the c-o-c had the incorrect date of 3/16/13.

#### **5.3 Calibrations**

Initial and continuing calibrations were performed using required standard concentrations and at required frequencies. ICV and CCV data met EPA SW-846 and Standard Method requirements for all analyses.

#### **5.4 Blanks**

Trip Blank and Field Blank QAPP requirements are listed above in Section 4.0.

##### *5.4.1 Field and Trip Blank Samples*

No field blank or trip blank samples were submitted for analysis in this SDG. Per the QAPP a trip blank is required with each SDG. One field blank was collected on 4/17/13 for the project soil samples submitted on 4/16/13 and 4/17/13 (6 total), and is reported in LDR L1306810. This satisfies the 1 in 20 requirement per the QAPP and samples in this report should be evaluated with the 4/17/13 field blank.

#### *5.4.2 Laboratory Blank Samples*

Toluene was detected above the MDL but below the RL in both 8260B laboratory method blanks and qualified “J” by the lab as required. As one sample concentration is greater than 10 times the RL, and the other is ND at the RL, no additional data qualifiers are required. All other compounds for all other analyses were ND at the RL. The laboratory interval standard and surrogate recoveries for all laboratory blanks met the project objectives.

### **5.5 Internal Standard and Surrogate Recoveries**

Internal standard areas and retention times met acceptance criteria for all analyses. Surrogates were added to all samples and blanks as required by method SW-846. All surrogate recoveries were within QC limits with the following exceptions:

- SB-7\_0-2/L1306694-01: all surrogates for PCBs and OCPs were below acceptance criteria of 30-150% due to dilution.

Based on professional judgment, no qualifiers are required for these samples based on the surrogate recoveries alone, as they do not apply to the target analytes and all other QC data is within method specifications.

### **5.6 Laboratory Control Samples**

The laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries met the project objectives of 70-130% (VOCs), 40-140% (SVOCs/PCBs), 30-150% (OCPs), or 80-120% (metals) recovery (or lab equivalent) with the following exceptions:

- The LCS/LCSD % recovery for 2-butanone was above acceptance criteria (biased high); however, the method allows for the data to be accepted with multiple compounds to be out of QC criteria and therefore, associated results are not qualified.
- The LCS/LCSD % recovery for 2,4-dinitrotoluene was above acceptance criteria (biased high); however, associated sample results are ND and are not qualified.

### **5.7 Laboratory Duplicate**

The laboratory duplicate for metals analysis (6010C/7471B) was performed on sample -01. Aluminum, antimony, magnesium, sodium, and zinc all exceeded relative percent difference (RPD) limits (35%). However, based on professional judgment and the non-homogeneous nature of the soil samples, no qualifiers are required.

### **5.8 Matrix Spike/Matrix Spike Duplicates**

The laboratory MS results for metals analysis (6010C/7471B) met the project objectives (75-125% recovery), with exceptions summarized in Table 2. The MS was performed on sample -01 (SB-7\_0-2).

### **5.9 Field Procedures**

All samples were collected using standard industry practices, which are detailed in the Site QAPP. No details are provided in the field notes regarding daily PID meter calibration. No field duplicate samples were collected with this SDG; however, 40 total project soil samples were submitted for analysis and two field duplicate samples were submitted in LDR L1307016 satisfying the 1 in 20 QAPP requirement.

### **5.10 Data Review and Validation Summary**

The results of this DUSR indicate that the analytical data collected in L1306694 are usable for determining concentrations of the COCs in soil at the Site, although the concentrations of compounds listed on Table 2 should be considered to be estimated (“J” qualified). Additionally, the absence of a trip blank does not allow a check of the potential for contamination of samples due to contaminant migration during sample shipment and storage.

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Sample Date	Laboratory Identification	Matrix	Analyses
SB-7_0-2	4/16/2013	L1306694-01	SOIL	SW-846 8260B, 8270D, 8082A, 8081B, 6010C, 7471B, 9010C/9012A, 7196A; and SM 2540G
SB-7_7-9	4/16/2013	L1306694-02	SOIL	SW-846 8260B, 8270D, 8082A, 8081B, 6010C, 7471B, 9010C/9012A, 7196A; and SM 2540G

Table 2. Qualified Analytical Data

Field ID / Lab ID	Analyte	Qualification	Reason for Qualification
SB-7_0-2 / L1306694-01	2-Butanone	J+	LCS recovery greater than 130%
SB-7_0-2 / L1306694-01	Antimony	J	MS recovery greater than 125% and PDS %REC less than 125%
SB-7_0-2 / L1306694-01	Arsenic	J	MS recovery greater than 125% and PDS %REC less than 125%
SB-7_0-2 / L1306694-01	Barium	J	MS recovery greater than 125% and PDS %REC less than 125%
SB-7_0-2 / L1306694-01	Chromium	J	MS recovery greater than 125% and PDS %REC less than 125%
SB-7_0-2 / L1306694-01	Potassium	J	MS recovery greater than 125% and PDS %REC less than 125%
SB-7_0-2 / L1306694-01	Sodium	J	MS recovery greater than 125% and PDS %REC less than 125%
SB-7_0-2 / L1306694-01	Magnesium	J	MS recovery greater than 125% and PDS %REC less than 125%
SB-7_0-2 / L1306694-01	Mercury	J-	MS recovery less than 70%
<p>U - The analyte was detected in the associated method blank above the reported sample quantitation limit but below the reporting limit. The associated sample concentrations are qualified as "non-detect".</p> <p>J - Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.</p> <p>plus (+) - Bias in sample result likely to be high.</p> <p>minus (-) - Bias in sample result likely to be low.</p>			

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306694  
**Report Date:** 04/23/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### PCBs

The surrogate recoveries for L1306694-01 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

#### Pesticides

L1306694-01 has elevated detection limits due to the dilution required by the sample matrix.

The surrogate recoveries for L1306694-01 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

#### Metals

L1306694-01 and -02 have elevated detection limits for all elements, except Mercury, due to the dilutions required by the sample matrices.

The WG602446-4 MS recoveries for Aluminum (2370%), Calcium (211%), Copper (253%), Iron (15800%), Lead (951%), Manganese (0%), and Zinc (1560%), performed on L1306694-01, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG602446-4 MS recoveries, performed on L1306694-01, are above the acceptance criteria for Antimony (232%), Arsenic (176%), Barium (126%), Chromium (158%), Magnesium (158%), Potassium (227%), and Sodium (175%). A post digestion spike was performed with acceptable recoveries for Antimony (95%), Arsenic (92%), Barium (95%), Chromium (87%), Potassium (113%), and Sodium (103%); and an unacceptable recovery for Magnesium (79%). This has been attributed to sample matrix.

The WG602446-3 Laboratory Duplicate RPDs, performed on L1306694-01, are outside the acceptance criteria for Aluminum (37%), Antimony (83%), Magnesium (63%), Sodium (37%), and Zinc (65%). The elevated



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

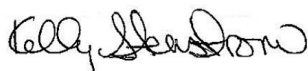
**Lab Number:** L1306694  
**Report Date:** 04/23/13

**Case Narrative (continued)**

RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 04/23/13



# Sample Delivery Group Form

Laboratory Job number: L1306694

Project Number: E040

Project Name: 514 W. 27TH ST. NYC

Received: 04/16/2013 14:10

Client Account: Integral Consulting, Inc.

Received by: SH

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt N/A

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPV Vials Present? Yes

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A encore

Reagent H2O Preserved vials Frozen on 04/17/13 00:41

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	4.9 - IR Gun	No	No

Project Manager: Matthew Beaupre

Review Date: 04/17/2013

**DATA USABILITY SUMMARY REPORT**  
**Laboratory Data Package L1306810**  
**April 25, 2013**

## **1.0 General Information**

Martina Litasi of Geosyntec Consultants, Inc. reviewed one laboratory data package from Alpha Analytical (Westborough, MA) for the analysis of soil and water samples collected April 16, 2013 and April 17, 2013 at the 514 West 27<sup>th</sup> Street property (Site) located in New York, New York. Samples were collected by James L'Esperance of Integral Consulting, Inc., New York, New York (Integral). The data were reviewed for conformance to the requirements of the guidance document EPA National Functional Guidelines for Data Review (EPA NFG) for organic and inorganic compounds and adherence to project objectives outlined in the Site Quality Assurance Project Plan<sup>1</sup> (QAPP).

This Data Usability Summary Report (DUSR) and associated laboratory package is labeled as laboratory project L1306810. The sample analysis Case Narrative (CN) and Sample Delivery Group Form (SDGF) for this data package are provided as part of this DUSR. The sample chain-of-custody (c-o-c) form for the samples is provided near the front of the full Cat. B Laboratory Data Report (LDR).

## **2.0 Intended Use of Data**

The intended use of the data reviewed as part of this DUSR is to provide current data on concentrations of chemicals of concern (COCs) in the soil at the affected Site. All soil samples were analyzed for:

- EPA Method 8260B – Volatile Organic Compounds (VOCs) by GC/MS;
- EPA Method 8270D – Semi-volatile Organic Compounds (SVOCs) by GC/MS;
- EPA Method 8082A – Polychlorinated Biphenyls (PCBs) by GC;
- EPA Method 8081B – Organochlorine Pesticides (OCPs) by GC;
- EPA Method 6010C – Total Metals;
- EPA Method 7471B – Total Mercury;
- Standard Method 2540G – Total Solids;
- EPA Method 9010C/9012A – Total Cyanide; and
- EPA Method 7196A – Hexavalent Chromium.

One aqueous field blank sample was submitted for QC purposes to check for contamination due to sample collection procedures at the Site. This water sample was analyzed for:

- EPA Method 8260B – Volatile Organic Compounds (VOCs) by GC/MS;
- EPA Method 8270D – Semi-volatile Organic Compounds (SVOCs) by GC/MS;
- EPA Method 8082A – Polychlorinated Biphenyls (PCBs) by GC;
- EPA Method 8081B – Organochlorine Pesticides (OCPs) by GC;
- EPA Method 6020A – Total Metals;
- EPA Method 7470A – Total Mercury;
- EPA Method 9010C/9012A – Total Cyanide; and
- EPA Method 7196A – Hexavalent Chromium.

---

<sup>1</sup> Appendix E, Quality Assurance Project Plan for the West 28<sup>th</sup> Street Remedial Investigation Work Plan for the property located at 505 W 27<sup>th</sup> Street, New York, NY 10001, Block 699, Lots 43 and 44, NYSDEC BCP No. C231082. Integral Engineering P.C., February 19, 2013.

The data reviewed as part of this DUSR were validated as described in the EPA NFGs and the results of the review and validation are discussed in this DUSR. The laboratory submittals, documents, and field data that were examined include:

- Reportable and raw data;
- CN and full Cat. B LDR;
- Sample c-o-c forms;
- Site QAPP; and
- Field notes that record the calibration of field instruments, sample collection procedures, and sample handling procedures.

The results of supporting quality control (QC) analyses were summarized in the CN and reported on Forms 2 through 8 (for each method/analysis) in the LDR.

### **3.0 Introduction**

A total of four (4) soil samples and one (1) water sample were analyzed for all compounds listed in Section 2.0. Table 1 lists the sample identifications cross-referenced to laboratory identifications including the date sampled.

### **4.0 Project Objectives**

The project objectives were to allow determination of precision, accuracy, and comparability of soil data. Per the project QAPP, one field duplicate and one field blank are required per 20 samples collected for each matrix. One trip blank is required with each sample delivery group (SDG) of VOC samples. Additionally, one site-specific matrix spike/matrix spike duplicate (MS/MSD) (per 20 samples) will be submitted for all required analyses for each matrix.

Analytical data objectives were not specified in the QAPP; therefore, laboratory and NFG specific criteria will be used and are presented in the following sections.

### **5.0 Data Review and Validation Results**

The following sections include a summary of sample analytical and validation results.

#### **5.1 Analytical Results**

As stated in the CNs, some sample exceptions were noted, and qualified analytical data are listed in Table 2. All soil data were reported on a dry weight basis (percent solids). As summarized in the CNs, none of the laboratory exceptions appear to have a practical impact on the usability of the data for the COCs at the Site; therefore, the laboratory results were accepted, and non-detected (ND) results are reported as less than the value of the reporting limit (RL)/method detection limit (MDL).

#### **5.2 Preservation and Holding Times**

Samples were evaluated for agreement with the c-o-c for the samples analyzed. All field notes and laboratory sample log-ins were consistent with c-o-cs for the samples analyzed. As noted in the CN and SDGF all samples were received in the appropriate containers and in good condition for the samples analyzed. Sample receipt temperatures were within the acceptance criteria of  $4 \pm 2$  °C. Samples that were analyzed were preserved in the field and prepared and analyzed within holding times specified in the QAPP and SW-846 Table 2-36. There were three discrepancies that are not likely to affect the analytical results but should be noted:

- It was recorded on the SDGF that the 3 sample coolers did not have custody seals as required per the QAPP. If samples were hand delivered or delivered by laboratory courier, no seals are required.

- The SDGF notes that samples listed on the original c-o-c were not in appropriate containers or properly labeled (and were not analyzed). The samples that were analyzed in this SDG were included in the coolers, properly labeled and preserved (as noted above), but not listed on the original c-o-c. It appears that a revised c-o-c with the samples in this SDG was created by “MB” at the laboratory per instructions from Integral on 4/18/13.
- Field notes provided for this SDG do not mention when or if the field blank sample was collected (i.e., no record of sample collection and no collection dates/times).

### 5.3 Calibrations

Initial and continuing calibrations were performed using required standard concentrations and at required frequencies. All ICV and CCV data met EPA SW-846 and Standard Method requirements for all analyses.

### 5.4 Blanks

Trip Blank and Field Blank QAPP requirements are listed above in Section 4.0.

#### 5.4.1 Field and Trip Blank Samples

No trip blank samples were submitted for analysis in this SDG. Per the QAPP a trip blank is required with each SDG. One field blank was submitted for analysis and all analytes were ND at the RL with the exception of:

- Aluminum, antimony, chromium, mercury, nickel, and sodium were detected above the MDL but below the RL qualified “J” by the lab as required.
- Calcium was detected above the RL.
- Cyanide was detected above the MDL but below the RL qualified “J” by the lab as required.

Integral should evaluate the results of the field blank sample to determine if the associated samples are affected by field blank detections. Additionally, samples in LDR L1306694 should be evaluated with this field blank.

#### 5.4.2 Laboratory Blank Samples

Antimony, potassium, and thallium were detected above the MDL but below the RL in the laboratory method blank for batch WG603035-1 and qualified “J” by the lab as required. Mercury was also detected above the MDL but below the RL in the laboratory method blank for batch WG603081-1 qualified “J” by the lab as required. All other compounds for all other analyses were ND at the RL. The laboratory interval standard and surrogate recoveries for all laboratory blanks met the project objectives. Associated qualified samples are shown on Table 2.

### 5.5 Internal Standard and Surrogate Recoveries

Internal standard areas and retention times met acceptance criteria for all analyses. Surrogates were added to all samples and blanks as required by method SW-846. All surrogate recoveries were within QC limits.

### 5.6 Laboratory Control Samples

The laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries met the project objectives of 70-130% (VOCs), 40-140% (SVOCs/PCBs), 30-150% (OCPs), or 80-120% (metals) recovery (or lab equivalent). The LCS/LCSD % recovery for acrolein was below acceptance criteria; however, acrolein is not a reported compound in the associated sample results. The LCS/LCSD relative percent difference (RPD) for 1,4-dioxane was above acceptance criteria; however, associated sample results are ND and are therefore not qualified. Additionally, the LCS % recovery for phenol was above acceptance criteria; however, associated sample results are ND and are therefore not qualified.

### **5.7 Laboratory Duplicate**

The laboratory duplicate for metals analysis (6010C/7471B) was performed on sample -02. Barium, chromium, copper, lead, and zinc all exceeded RPD limits (35%). However, based on professional judgment and the non-homogeneous nature of the soil samples, no qualifiers are required.

### **5.8 Matrix Spike/Matrix Spike Duplicates**

The laboratory MS results for metals analysis (6010C/7471B) met the project objectives (75-125% recovery), with exceptions summarized in Table 2. The MS was performed on sample -02 (SB-22\_0-2).

### **5.9 Field Procedures**

All samples were collected using standard industry practices, which are detailed in the Site QAPP. No details are provided in the field notes regarding daily PID meter calibration for 4/16/13 and calibration values for 4/17/13 are also not recorded in the field book. No field duplicate samples were collected with this SDG; however, 40 total project soil samples were submitted for analysis and two field duplicate samples were submitted in LDR L1307016 satisfying the 1 in 20 QAPP requirement.

### **5.10 Data Review and Validation Summary**

The results of this DUSR indicate that the analytical data collected in L1306810 are usable for determining concentrations of the COCs in soil at the Site, although the concentrations of compounds listed on Table 2 should be considered to be estimated (“J” qualified) or not detected (“U” qualified). In addition, the absence of a trip blank does not allow a check of the potential for contamination of samples due to contaminant migration during sample shipment and storage.

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Sample Date	Laboratory Identification	Matrix	Analyses
FIELD BLANK	4/17/2013	L1306810-01	WATER	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, 7470A, 9010C/9012A, and 7196A
SB-22_0-2	4/16/2013	L1306810-02	SOIL	SW-846 8260B, 8270D, 8082A, 8081B, 6010C, 7471B, 9010C/9012A, 7196A; and SM 2540G
SB-22_8-10	4/16/2013	L1306810-03	SOIL	SW-846 8260B, 8270D, 8082A, 8081B, 6010C, 7471B, 9010C/9012A, 7196A; and SM 2540G
SB-14_0-2	4/16/2013	L1306810-04	SOIL	SW-846 8260B, 8270D, 8082A, 8081B, 6010C, 7471B, 9010C/9012A, 7196A; and SM 2540G
SB-14_7-9	4/16/2013	L1306810-05	SOIL	SW-846 8260B, 8270D, 8082A, 8081B, 6010C, 7471B, 9010C/9012A, 7196A; and SM 2540G

Note: Additional samples were originally submitted under the chain-of custody; however, the laboratory was contacted, and samples not listed above were not analyzed.

Table 2. Qualified Analytical Data

Field ID / Lab ID	Analyte	Qualification	Reason for Qualification
FIELD BLANK / L1306810-01	Antimony	U	MB conc. above MDL, but below RL Sample concentration below RL
FIELD BLANK / L1306810-01	Mercury	U	MB conc. above MDL, but below RL Sample concentration below RL
SB-22_0-2 / L1306810-02	Copper	J-	MS recovery between 30-74% and PDS %REC less than 75%
SB-22_0-2 / L1306810-02	Lead	J-	MS recovery between 30-74% and PDS %REC less than 75%
SB-22_0-2 / L1306810-02	Sodium	J+	MS recovery greater than 125% and PDS %REC greater than 125%
SB-22_0-2 / L1306810-02	Mercury	J+	MS recovery greater than 130%
<p>U - The analyte was detected in the associated method blank above the reported sample quantitation limit but below the reporting limit. The associated sample concentrations are qualified as "non-detect".</p> <p>J - Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.</p> <p>plus (+) - Bias in sample result likely to be high.</p> <p>minus (-) - Bias in sample result likely to be low.</p>			



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1306810  
**Report Date:** 04/25/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Semivolatile Organics

The WG602862-2/-3 LCS/LCSD recoveries, associated with L1306810-01, are below the acceptance criteria for Benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

#### Metals

L1306810-02 through -05 have elevated detection limits for all elements, except Mercury, due to the dilutions required by the sample matrices.

The WG603051-4 MS recoveries for Aluminum (0%), Calcium (0%), Iron (0%), Magnesium (62%), Manganese (0%), Potassium (62%), and Zinc (25%), performed on L1306810-02, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG603051-4 MS recoveries, performed on L1306810-02, are outside the acceptance criteria for Copper (49%), Lead (12%), and Sodium (154%). A post digestion spike was performed with unacceptable recoveries for Copper (74%), Lead (73%), and Sodium (133%). This has been attributed to sample matrix.

The WG603051-3 Laboratory Duplicate RPDs, performed on L1306810-02, are outside the acceptance criteria for Barium (41%), Chromium (39%), Copper (55%), Lead (113%), and Zinc (76%). The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Cynthia McQueen

Title: Technical Director/Representative

Date: 04/25/13



# Sample Delivery Group Form

Laboratory Job number: L1306810

Project Number: E040

Project Name: 514 W. 27TH ST NYC

Received: 04/17/2013 14:45

Client Account: Integral Consulting, Inc.

Received by: WM

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? Yes

4 extra sample sets labeled SB-14\_0-2, SB-14\_7-9, SB-22\_0-2; SB-22\_8-10

Do Sample Labels and COC agree? No

none of the samples listed on the chain of custody were received in labeled jars or encores (except Field Blank); samples were received in plastic bags with sample IDs written on bag but cannot match

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt <2,7,>12

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? Yes

Aqueous: Do Vials Contain Head Space? No

Soils: Is MeOH Covering the Soil? N/A Encores

Reagent H2O Preserved vials Frozen on 04/18/13 04:36

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
B	Absent	Yes	No	3.3 - IR Gun	No	No
A	Absent	Yes	No	2.8 - IR Gun	No	No



## Sample Delivery Group Form

C	Absent	Yes	No	3.3 - IR Gun	No	No
---	--------	-----	----	--------------	----	----

---

**Project Manager:** Matthew Beaupre

**Review Date:** 04/19/2013

**DATA USABILITY SUMMARY REPORT**  
**Laboratory Data Package L1307006**  
**April 26, 2013**

## **1.0 General Information**

Martina Litasi of Geosyntec Consultants, Inc. reviewed one laboratory data package from Alpha Analytical (Westborough, MA) for the analysis of solid (concrete) samples collected from April 17, 2013 through April 19, 2013 at the 514 West 27<sup>th</sup> Street property (Site) located in New York, New York. Samples were collected by James L'Esperance of Integral Consulting, Inc., New York, New York (Integral). The data were reviewed for conformance to the requirements of the guidance document EPA National Functional Guidelines for Data Review (EPA NFG) for organic compounds and adherence to project objectives outlined in the Site Quality Assurance Project Plan<sup>1</sup> (QAPP).

This Data Usability Summary Report (DUSR) and associated laboratory package is labeled as laboratory project L1307006. The sample analysis Case Narrative (CN) and Sample Delivery Group Form (SDGF) for this data package are provided as part of this DUSR. The sample chain-of-custody (c-o-c) form for the samples is provided near the front of the full Cat. B Laboratory Data Report (LDR).

## **2.0 Intended Use of Data**

The intended use of the data reviewed as part of this DUSR is to provide current data on concentrations of chemicals of concern (COCs) in the concrete at the affected Site. All samples were analyzed for:

- EPA Method 8082A – Polychlorinated Biphenyls (PCBs) by GC; and
- Standard Method 2540G – Total Solids.

The data reviewed as part of this DUSR were validated as described in the EPA NFGs and the results of the review and validation are discussed in this DUSR. The laboratory submittals, documents, and field data that were examined include:

- Reportable and raw data;
- CN and full Cat. B LDR;
- Sample c-o-c forms;
- Site QAPP; and
- Field notes that record the calibration of field instruments, sample collection procedures, and sample handling procedures.

The results of supporting quality control (QC) analyses were summarized in the CN and reported on Forms 2 through 8 (for each method/analysis) in the LDR.

## **3.0 Introduction**

A total of six (6) solid (concrete) samples were analyzed for all compounds listed in Section 2.0. Table 1 lists the sample identifications cross-referenced to laboratory identifications including the date sampled.

## **4.0 Project Objectives**

The project objectives were to allow determination of precision, accuracy, and comparability of solids data. Per the project QAPP, one field duplicate and one field blank are required per 20 samples collected for each matrix. One trip blank is required with each sample delivery group (SDG) of VOC samples.

---

<sup>1</sup> Appendix E, Quality Assurance Project Plan for the West 28<sup>th</sup> Street Remedial Investigation Work Plan for the property located at 505 W 27<sup>th</sup> Street, New York, NY 10001, Block 699, Lots 43 and 44, NYSDEC BCP No. C231082. Integral Engineering P.C., February 19, 2013.

Additionally, one site-specific matrix spike/matrix spike duplicate (MS/MSD) (per 20 samples) will be submitted for all required analyses for each matrix.

Analytical data objectives were not specified in the QAPP; therefore, laboratory and NFG specific criteria will be used and are presented in the following sections.

## **5.0 Data Review and Validation Results**

The following sections include a summary of sample analytical and validation results.

### **5.1 Analytical Results**

As stated in the CNs, some sample exceptions were noted, and qualified analytical data are reported. All solids data were reported on a dry weight basis (percent solids). As summarized in the CNs, none of the laboratory exceptions appear to have a practical impact on the usability of the data for the COCs at the Site; therefore, the laboratory results were accepted, and non-detected (ND) results are reported as less than the value of the reporting limit (RL)/method detection limit (MDL).

#### Target Compound Identification

Percent differences between two GC columns must be within 25%. As noted in the CN, Aroclor 1242 was qualified “P” by the lab for sample -04 (SB-17\_CON\_BOT) to indicate that the % difference between the 2 columns exceeded criteria. No additional qualifiers are required for this sample.

### **5.2 Preservation and Holding Times**

Samples were evaluated for agreement with the c-o-c. All field notes and laboratory sample log-ins were consistent with c-o-cs. As noted in the CN and SDGF all samples were received in the appropriate containers and in good condition. Sample receipt temperatures were within the acceptance criteria of  $4 \pm 2$  °C. Samples were preserved in the field and prepared and analyzed within holding times specified in the QAPP and SW-846 Table 2-36. There were two discrepancies that are not likely to affect the analytical results but should be noted:

- It was recorded on the SDGF that the sample cooler did not have a custody seal as required per the QAPP. If samples were hand delivered or delivered by laboratory courier, no seals are required.
- Field notes provided for this SDG do not mention when or if samples were collected (i.e., no record of sample collection and no collection dates/times).

### **5.3 Calibrations**

Initial and continuing calibrations were performed using required standard concentrations and at required frequencies. ICV and CCV data met EPA SW-846 and Standard Method requirements for all analyses.

### **5.4 Blanks**

Trip Blank and Field Blank QAPP requirements are listed above in Section 4.0.

#### *5.4.1 Field and Trip Blank Samples*

No trip blank samples were required for analysis in this sample delivery group (no VOCs). Per the QAPP, one field blank sample was required per each media; however, none were collected with this SDG.

#### *5.4.2 Laboratory Blank Samples*

All compounds in the laboratory method blank were ND at the MDL/RL. The laboratory interval standard and surrogate recoveries for the laboratory blank met the project objectives. No data qualifiers are required.

### **5.5 Internal Standard and Surrogate Recoveries**

Internal standard areas and retention times met acceptance criteria for all analyses. Surrogates were added to all samples and blanks as required by method SW-846. All surrogate recoveries were within QC limits with the following exceptions:

- SB-28\_CON\_TOP/L1307006-02: one of two decachlorobiphenyl % recoveries was above acceptance criteria of 30-150%.

Based on the EPA NFGs, no qualifiers are required for this sample since all sample results are ND and all other QC data is within method specifications.

### **5.6 Laboratory Control Samples**

The laboratory control sample (LCS) recoveries met the project objectives of 40-140% recovery (or lab equivalent).

### **5.7 Laboratory Duplicate**

The laboratory duplicate for solids analysis (6010C/7471B) was performed on sample -01. The duplicate sample relative percent difference (RPD) was within QC limits.

### **5.8 Matrix Spike/Matrix Spike Duplicates**

No MS/MSD was performed on sample in this LDR. Acceptable LCS and method blank data indicate the system was operating properly.

### **5.9 Field Procedures**

All samples were collected using standard industry practices, which are detailed in the Site QAPP. No field duplicate samples were collected with this SDG; however, two field duplicate samples were submitted in LDR L1307016 for solids/soils analysis that will provide representative data for field collection procedures.

### **5.10 Data Review and Validation Summary**

The results of this DUSR indicate that the analytical data collected in L1307006 are usable for determining concentrations of the COCs in solids (concrete) at the Site. However, the absence of a field blank sample does not allow a check of the potential for contamination due to sampling procedures.

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

<b>Field Identification</b>	<b>Sample Date</b>	<b>Laboratory Identification</b>	<b>Matrix</b>	<b>Analyses</b>
SB-12_CON_TOP	4/17/2013	L1307006-01	Concrete/Solid	SW-846 8082A and SM 2540G
SB-28_CON_TOP	4/18/2013	L1307006-02	Concrete/Solid	SW-846 8082A and SM 2540G
SB-10_CON_BOT	4/18/2013	L1307006-03	Concrete/Solid	SW-846 8082A and SM 2540G
SB-17_CON_BOT	4/19/2013	L1307006-04	Concrete/Solid	SW-846 8082A and SM 2540G
SB-24_CON_TOP	4/19/2013	L1307006-05	Concrete/Solid	SW-846 8082A and SM 2540G
SB-11_CON_BOT	4/19/2013	L1307006-06	Concrete/Solid	SW-846 8082A and SM 2540G



**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307006  
**Report Date:** 04/26/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307006  
**Report Date:** 04/26/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### PCBs

L1307006-02 and -03 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.

The dual column RPD for L1307006-04 is above the acceptance criteria for Aroclor 1242; however, no obvious column interferences are present. The higher of the two results is reported and qualified with a "P".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Cynthia McQueen

Title: Technical Director/Representative

Date: 04/26/13



# Sample Delivery Group Form

Laboratory Job number: L1307006

Project Number: E040

Project Name: 514 W 27TH ST NYC

Received: 04/19/2013 19:00

Client Account: Integral Consulting, Inc.

Received by: RS

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt N/A

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	3.9 - IR Gun	No	No

**DATA USABILITY SUMMARY REPORT**  
**Laboratory Data Package L1307016**  
**April 29, 2013**

## **1.0 General Information**

Martina Litasi of Geosyntec Consultants, Inc. reviewed one laboratory data package from Alpha Analytical (Westborough, MA) for the analysis of soil and water samples collected April 18, 2013 and April 19, 2013 at the 514 West 27<sup>th</sup> Street property (Site) located in New York, New York. Samples were collected by James L'Esperance of Integral Consulting, Inc., New York, New York (Integral). The data were reviewed for conformance to the requirements of the guidance document EPA National Functional Guidelines for Data Review (EPA NFG) for organic and inorganic compounds and adherence to project objectives outlined in the Site Quality Assurance Project Plan<sup>1</sup> (QAPP).

This Data Usability Summary Report (DUSR) and associated laboratory package is labeled as laboratory project L1307016. The sample analysis Case Narrative (CN) and Sample Delivery Group Form (SDGF) for this data package are provided as part of this DUSR. The sample chain-of-custody (c-o-c) form for the samples is provided near the front of the full Cat. B Laboratory Data Report (LDR).

## **2.0 Intended Use of Data**

The intended use of the data reviewed as part of this DUSR is to provide current data on concentrations of chemicals of concern (COCs) in the soil at the affected Site. All soil samples were analyzed for:

- EPA Method 8260C – Volatile Organic Compounds (VOCs) by GC/MS;
- EPA Method 8270D – Semi-volatile Organic Compounds (SVOCs) by GC/MS;
- EPA Method 8082A – Polychlorinated Biphenyls (PCBs) by GC;
- EPA Method 8081B – Organochlorine Pesticides (OCPs) by GC;
- EPA Method 6010C – Total Metals;
- EPA Method 7471B – Total Mercury;
- Standard Method 2540G – Total Solids;
- EPA Method 9010C/9012A – Total Cyanide; and
- EPA Method 7196A – Hexavalent Chromium.

One aqueous field blank sample was submitted for quality control (QC) purposes to check for contamination due to sample collection procedures at the Site. This water sample was analyzed for:

- EPA Method 8260C – Volatile Organic Compounds (VOCs) by GC/MS;
- EPA Method 8270D – Semi-volatile Organic Compounds (SVOCs) by GC/MS;
- EPA Method 8082A – Polychlorinated Biphenyls (PCBs) by GC;
- EPA Method 8081B – Organochlorine Pesticides (OCPs) by GC;
- EPA Method 6020A – Total Metals;
- EPA Method 7470A – Total Mercury;
- EPA Method 9010C/9012A – Total Cyanide; and
- EPA Method 7196A – Hexavalent Chromium.

---

<sup>1</sup> Appendix E, Quality Assurance Project Plan for the West 28<sup>th</sup> Street Remedial Investigation Work Plan for the property located at 505 W 27<sup>th</sup> Street, New York, NY 10001, Block 699, Lots 43 and 44, NYSDEC BCP No. C231082. Integral Engineering P.C., February 19, 2013.

One aqueous trip blank sample was submitted for QC purposes to check for contamination due to sample handling, storage, and shipping procedures. This water sample was analyzed for:

- EPA Method 8260C – Volatile Organic Compounds (VOCs) by GC/MS.

The data reviewed as part of this DUSR were validated as described in the EPA NFGs and the results of the review and validation are discussed in this DUSR. The laboratory submittals, documents, and field data that were examined include:

- Reportable and raw data;
- CN and full Cat. B LDR;
- Sample c-o-c forms;
- Site QAPP; and
- Field notes that record the calibration of field instruments, sample collection procedures, and sample handling procedures.

The results of supporting QC analyses were summarized in the CN and reported on Forms 2 through 8 (for each method/analysis) in the LDR.

### **3.0 Introduction**

A total of thirty-six (36) soil samples and two (2) water samples were analyzed for all compounds listed in Section 2.0. Table 1 lists the sample identifications cross-referenced to laboratory identifications including the date sampled.

### **4.0 Project Objectives**

The project objectives were to allow determination of precision, accuracy, and comparability of data. Per the project QAPP, one field duplicate and one field blank are required per 20 samples collected for each matrix. One trip blank is required with each sample delivery group (SDG) of VOC samples. Additionally, one site-specific matrix spike/matrix spike duplicate (MS/MSD) (per 20 samples) will be submitted for all required analyses for each matrix.

Analytical data objectives were not specified in the QAPP; therefore, laboratory and NFG specific criteria will be used and are presented in the following sections.

### **5.0 Data Review and Validation Results**

The following sections include a summary of sample analytical and validation results.

#### **5.1 Analytical Results**

As stated in the CNs, some sample exceptions were noted, and qualified analytical data are listed in Table 2. All soil data were reported on a dry weight basis (percent solids). As summarized in the CNs, none of the laboratory exceptions appear to have a practical impact on the usability of the data for the COCs at the Site; therefore, the laboratory results were accepted, and non-detected (ND) results are reported as less than the value of the reporting limit (RL)/method detection limit (MDL).

#### **Target Compound Identification**

Percent differences between two GC columns must be within 25%. As noted in the CN, dieldrin was qualified “P” by the lab for samples -33 and -34 to indicate that the % difference between the 2 columns exceeded criteria. Additionally, lindane was qualified “P” by the lab for sample -37 to indicate that the % difference between the 2 columns exceeded criteria. No additional qualifiers are required for these samples.

## 5.2 Preservation and Holding Times

Samples were evaluated for agreement with the c-o-c. All field notes and laboratory sample log-ins were consistent with c-o-cs. As noted in the CN and SDGF all samples were received in the appropriate containers and in good condition. Sample receipt temperatures were within the acceptance criteria of  $4 \pm 2$  °C. Samples were preserved in the field and prepared and analyzed within holding times specified in the QAPP and SW-846 Table 2-36. There was one discrepancy that is not likely to affect the analytical results but should be noted:

- It was noted on the SDGF that the 7 sample coolers did not have custody seals as required per the QAPP. If samples were hand delivered or delivered by laboratory courier, no seals are required.

## 5.3 Calibrations

Initial and continuing calibrations were performed using required standard concentrations and at required frequencies. All ICV and CCV data met EPA SW-846 and Standard Method requirements for all analyses.

## 5.4 Blanks

Trip Blank and Field Blank QAPP requirements are listed above in Section 4.0.

### 5.4.1 Field and Trip Blank Samples

One trip blank sample (collected 4/19/13) was submitted for analysis in this SDG. As noted in the CN, acetone and 2-butanone were detected in the trip blank above the MDL but below the RL. One field blank was submitted for analysis and all analytes were ND at the RL with the exception of:

- Antimony, chromium, mercury, and nickel were detected above the MDL but below the RL qualified “J” by the lab as required.
- Cyanide was detected above the MDL but below the RL qualified “J” by the lab as required.

Integral should evaluate the results of the field blank sample to determine if the associated samples are affected by field blank detections. Additionally, a second field blank was collected on 4/17/13 as part of the 40 total project soil samples (reported in LDR L1306810), so a second field blank sample was not required with this SDG.

### 5.4.2 Laboratory Blank Samples

All method blank (MB) results were reported below the MDL with the following exceptions:

- Toluene was detected above the MDL but below the RL in the laboratory MB for VOC batch WG603524-6 (-22) and qualified “J” by the lab as required. Associated qualified samples are shown on Table 2.
- Antimony, potassium, thallium, and mercury were detected above the MDL but below the RL in the laboratory MB for metals batch WG603035-1 (-35) and qualified “J” by the lab as required. Associated qualified samples are shown on Table 2.
- Iron was detected above the MDL but below the RL in the laboratory MB for metals batch WG603116-1 (samples -01 through -20) and qualified “J” by the lab as required. All associated sample results are greater than 10 times the MB concentrations; therefore, no qualifiers are required.
- Iron and zinc were detected above the MDL but below the RL in the laboratory MB for metals batch WG603155-1 (samples -21 through -34, -37 and -38) and qualified “J” by the lab as required. All associated sample results are greater than 10 times the MB concentrations; therefore, no qualifiers are required.

The laboratory interval standard and surrogate recoveries for all laboratory MBs met the project objectives with the following exceptions:

- SVOC MB surrogate recovery for 4 of 6 compounds in batch WG602833-1 exceeded QC limits (high). All associated MB results were ND at the MDL; therefore, no qualifiers are required.

## 5.5 Internal Standard and Surrogate Recoveries

Internal standard areas and retention times met acceptance criteria for all analyses. Surrogates were added to all samples and blanks as required by method SW-846. All surrogate recoveries were within QC limits with the following exceptions:

- SB-27\_1-3/L1307016-16: all surrogates for SVOCs were below acceptance criteria due to dilution.
- SB-16\_1-3/L1307016-22: all surrogates for SVOCs were below acceptance criteria due to dilution.
- L1307016-18, -31, -37: all surrogates for PCBs were below acceptance criteria due to dilution.
- L1307016-22, -29, -31: all surrogates for OCPs were below acceptance criteria due to dilution.

Based on professional judgment, no qualifiers are required for these samples based on the surrogate recoveries alone, as they do not apply to the target analytes and all other QC data is within method specifications.

Additionally:

- SB-10\_8-10/ L1307016-19: 1 of 6 surrogates (2-fluorobiphenyl) for SVOC analysis was below QC limits.
- SB-17\_1-3/ L1307016-29: 1 of 6 surrogates (2-fluorobiphenyl) for SVOC analysis was below QC limits.
- LCS/LCSD: 1 of 6 surrogates (4-terphenyl-d14) in WG602883-2, -3 for SVOC analysis was above QC limits.
- SB-7\_7-9/ L1307016-34: 1 of 4 surrogates (decachlorobiphenyl) for PCB analysis was below QC limits.
- SB-18\_1-3/ L1307016-07: 1 of 4 surrogates (decachlorobiphenyl) for OCP analysis was above QC limits.
- SB-10\_1-3/ L1307016-18: 1 of 4 surrogates (2,4,5,6-Tetrachloro-m-xylene) for OCP analysis was above QC limits.
- SB-17\_7-9/ L1307016-30: 2 of 4 surrogates (decachlorobiphenyl) for OCP analysis were above QC limits.
- SB-7\_0-2/ L1307016-33: 1 of 4 surrogates (decachlorobiphenyl) for OCP analysis was above QC limits.
- SB-26\_0-2/ L1307016-37: 1 of 4 surrogates (decachlorobiphenyl) for OCP analysis was above QC limits.

These methods allow for 2 or fewer surrogates to be out of acceptance criteria; therefore, the data is accepted and no qualifiers are required.

Further exceptions include:

- SB-27\_1-3/ L1307016-16: all surrogates (decachlorobiphenyl) for OCP analysis were above QC limits. All sample results were ND and no qualifiers are required.
- SB-15\_8-10/ L1307016-21: 3 of 4 surrogates for OCP analysis were above QC limits. All sample results were ND with the exception of Chlordane. The qualifier for this sample is shown in Table 2.

## 5.6 Laboratory Control Samples

The laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries met the project objectives of 70-130% (VOCs), 40-140% (SVOCs/PCBs), 30-150% (OCPs), or 80-120% (metals) recovery (or lab equivalent) with the following exceptions:

#### VOCs

- The LCS/LCSD % recovery for acrolein in multiple batches (including samples -01 through -21 and -23 through -26) was below acceptance criteria (biased low); however, acrolein is not a reported compound in the associated sample results.
- The LCS % recovery for chloromethane in multiple batches (including samples -22, -27 through -34, -37, and -38) was above acceptance criteria (biased high); associated sample results are ND and are not qualified.
- The LCS and/or LCSD % recovery for 2-hexanone, 1,2-dibromo-3-chloropropane, tert-butyl alcohol, and trans-1,2-dichlorobutene in multiple batches (including samples -22, -27 through -34, -37, and -38) was below acceptance criteria (biased low); associated sample results are ND and are not qualified. Associated qualified samples are shown on Table 2.
- The LCS/LCSD % RPDs for multiple compounds were outside acceptance criteria (high) in batches WG603524-4 and -5 (including sample -22); however, associated LCS/LCSD % recoveries were within QC criteria. Based on professional judgment, associated samples results are not qualified.

#### SVOCs

- The LCS and/or LCSD % recovery for 2,4-dinitrotoluene in multiple batches (including all samples except -36) was above acceptance criteria (biased high); associated sample results are ND and are not qualified.
- The LCS/LCSD % recoveries for p-chloro-m-cresol and 4-nitrophenol in multiple batches (including samples -21 through -34, -37, and -38) were above acceptance criteria (biased high); associated sample results are ND and are not qualified.
- The LCS/LCSD % recovery for 4-chloroaniline in multiple batches (including samples -01 through -20) was below acceptance criteria (biased low). Associated qualified samples are shown on Table 2.
- The LCS/LCSD % recovery for hexachlorocyclopentadiene in multiple batches (including sample -35) was below acceptance criteria (biased low). Associated qualified samples are shown on Table 2.

### **5.7 Laboratory Duplicate**

The laboratory duplicate for metals analysis (6010C/7471B) was performed on batch samples and were in control. The laboratory duplicates for general chemistry analysis were performed on batch samples and multiple samples in the SDG and all were in control.

### **5.8 Matrix Spike/Matrix Spike Duplicates**

The laboratory MS/MSD results for VOC and SVOC analysis (8260C and 8270D) met the project objectives (compound specific recovery), with exceptions summarized in Table 2. The MS/MSDs were performed on samples -17 (SB-27\_7-9) and -27 (SB-23\_0-2). MS/MSD for PCBs met the project objectives (40-140% Recovery). MS/MSD for OCPs met the project objectives (30-150% Recovery).

The laboratory MS/MSD results for metals analysis (6010C/7471B) met the project objectives (75-125% Recovery), with exceptions summarized in Table 2. The MS/MSDs were performed on samples -17 (SB-27\_7-9) and -27 (SB-23\_0-2). The laboratory MS/MSD results for general chemistry parameters met the project objectives.



## **5.9 Field Procedures**

All samples were collected using standard industry practices, which are detailed in the Site QAPP. Field QC requirements were met. No details are provided in the field notes regarding daily PID meter calibration for 4/18/13 and 4/19/13. Integral should evaluate the results of the field duplicate samples to determine if the associated samples and duplicates have met the project objectives (Section 4.0).

## **5.10 Data Review and Validation Summary**

The results of this DUSR indicate that the analytical data collected in L1307016 are usable for determining concentrations of the COCs in soils at the Site, although the concentrations of compounds listed on Table 2 should be considered to be estimated (“J” qualified) or not detected (“U” qualified).

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Sample Date	Laboratory Identification	Matrix	Analyses
SB-12_1-3	4/18/2013	L1307016-01	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-12_7-9	4/18/2013	L1307016-02	Soil	SW-846 8260B, 8270D, 6020A, and 7470A
SB-9_1-3	4/18/2013	L1307016-03	Soil	SW-846 8260B, 8270D, 6020A, and 7470A
SB-9_3-5	4/18/2013	L1307016-04	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-13_1-3	4/18/2013	L1307016-05	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-13_7-9	4/18/2013	L1307016-06	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-18_1-3	4/18/2013	L1307016-07	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-18_7-9	4/18/2013	L1307016-08	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-8_0-2	4/18/2013	L1307016-09	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-8_8-10	4/18/2013	L1307016-10	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-28_1-3	4/18/2013	L1307016-11	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-28_7-9	4/18/2013	L1307016-12	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-25_1-3	4/18/2013	L1307016-13	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-25_7-9	4/18/2013	L1307016-14	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-25_7-9_FIELD-DUP	4/18/2013	L1307016-15	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-27_1-3	4/18/2013	L1307016-16	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-27_7-9	4/18/2013	L1307016-17	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-10_1-3	4/18/2013	L1307016-18	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-10_8-10	4/18/2013	L1307016-19	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-15_0-2	4/19/2013	L1307016-20	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-15_8-10	4/19/2013	L1307016-21	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-16_1-3	4/19/2013	L1307016-22	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-16_7-9	4/19/2013	L1307016-23	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-16_7-9-FIELD-DUP	4/19/2013	L1307016-24	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-24_1-3	4/19/2013	L1307016-25	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-24_8-10	4/19/2013	L1307016-26	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-23_0-2	4/19/2013	L1307016-27	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Sample Date	Laboratory Identification	Matrix	Analyses
SB-23_7-9	4/19/2013	L1307016-28	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-17_1-3	4/19/2013	L1307016-29	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-17_7-9	4/19/2013	L1307016-30	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-11_1-3	4/19/2013	L1307016-31	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-11_7-9	4/19/2013	L1307016-32	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-7_0-2	4/19/2013	L1307016-33	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-7_7-9	4/19/2013	L1307016-34	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
FIELD BLANK	4/19/2013	L1307016-35	Water	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
TRIP BLANK	4/19/2013	L1307016-36	Water	SW-846 8260B
SB-26_0-2	4/18/2013	L1307016-37	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
SB-26_7-9	4/18/2013	L1307016-38	Soil	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A

Table 2. Qualified Analytical Data

Field ID / Lab ID	Analyte	Qualification	Reason for Qualification
SB-16_1-3 / L1307016-22	Toluene	U	MB conc. above MDL, but below RL Sample concentration below RL
FIELD BLANK / L1307016-35	Antimony	U	MB conc. above MDL, but below RL Sample concentration below RL
FIELD BLANK / L1307016-35	Mercury	U	MB conc. above MDL, but below RL Sample concentration below RL
SB-15_8-10/ L1307016-21	Chlordane	J	Surrogate recovery greater than 150% Sample concentration above RL
Samples L1307016-22, -27 through -34, -37, -38	2-Hexanone	UJ	LCS recovery less than 70% Sample conc. ND
Samples L1307016-22, -27 through -34, -37, -38	1,2-Dibromo-3-chloropropane	UJ	LCS recovery less than 70% Sample conc. ND
Samples L1307016-22, -27 through -34, -37, -38	Tert-butyl alcohol	UJ	LCS recovery less than 70% Sample conc. ND
Samples L1307016-22, -27 through -34, -37, -38	trans-1,2-Dichlorobutene	UJ	LCS recovery less than 70% Sample conc. ND
FIELD BLANK/L1307016-35	Hexachlorocyclopentadiene	UJ	LCS recovery less than 70% Sample conc. ND
Samples L1307016-01 through -20	4-Chloroaniline	UJ	LCS recovery less than 70%
SB-27_7-9 / L1307016-17	Vinyl acetate	UJ	MS recovery less than 70%
SB-23_0-2 / L1307016-27	Bromoform; 1,1,2,2-TCA; 1,4-DC; vinyl acetate; 4-Methyl-2-pentanone; 1,2,3-TCP; 2-hexanone; 1,2-Dibromo-3-chloropropane	UJ	MS/MSD recovery less than 70%
SB-23_0-2 / L1307016-27	hexachloro-butadiene; naphthalene; acrylonitrile; 1,2,3-TCB; 1,2,4-TCB; trans-1,4-Dichloro-2-butene	UJ	MS/MSD recovery less than 70%
SB-27_7-9 / L1307016-17	4-Chloroaniline	UJ	MS/MSD recovery less than 40%
SB-23_0-2 / L1307016-27	Lead	J	MS recovery between 30-74% and PDS %REC greater than 75%
SB-23_0-2 / L1307016-27	Magnesium	J	MSD recovery greater than 125% and PDS %REC less than 125%
SB-23_0-2 / L1307016-27	Potassium	J	MS/MSD recovery greater than 125% and PDS %REC less than 125%
SB-23_0-2 / L1307016-27	Sodium	J	MSD recovery greater than 125% and and PDS %REC less than 125%
SB-23_0-2 / L1307016-27	Zinc	J	MS/MSD recovery between 30-74% and PDS %REC greater than 75%
<p>U - The analyte was detected in the associated method blank above the reported sample quantitation limit but below the reporting limit. The associated sample concentrations are qualified as "non-detect".</p> <p>UJ - The analyte was analyzed for but was not detected above the sample reporting limit. The associated value is an estimate and may be inaccurate or imprecise.</p> <p>J - Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.</p> <p>plus (+) - Bias in sample result likely to be high.</p> <p>minus (-) - Bias in sample result likely to be low.</p>			

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

L1307016-33: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L1307016-36: The Trip Blank has results for Acetone and 2-Butanone present below the reporting limits. The sample vials were verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG603479-4 MS recovery, performed on L1307016-17, was below the acceptance criteria for Vinyl acetate (68%).

The WG603479-4/-5 MS/MSD recoveries, performed on L1307016-17, are below the acceptance criteria for Naphthalene (0%/0%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the sample utilized for the MS/MSD.

The WG603522-4/-5 MS/MSD recoveries, performed on L1307016-27, were below the acceptance criteria for Bromoform (62%/62%), 1,1,2,2-Tetrachloroethane (61%/61%), 1,4-Dichlorobenzene (MSD at 69%), Vinyl acetate (46%/38%), 4-Methyl-2-pentanone (60%/62%), 1,2,3-Trichloropropane (61%/62%), 2-Hexanone (66%/67%), 1,2-Dibromo-3-chloropropane (58%/55%), Hexachlorobutadiene (64%/53%), Naphthalene (54%/53%), Acrylonitrile (67%/67%), 1,2,3-Trichlorobenzene (59%/55%), 1,2,4-Trichlorobenzene (63%/58%), and trans-1,4-Dichloro-2-butene (50%/50%).

#### Semivolatile Organics

L1307016-05, -13, and -19 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.

L1307016-20, -29, -33, -34, and -37 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the sample matrices.

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative (continued)

The surrogate recoveries for L1307016-16 and -22 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, and 4-Terphenyl-d14 (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

The WG602875-2/-3 LCS/LCSD recoveries, associated with L1307016-01 through -20, are below the acceptance criteria for Benzoic Acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG602993-2/-3 LCS/LCSD recoveries, associated with L1307016-35, are below the acceptance criteria for Benzoic Acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

The WG602875-4/-5 MS/MSD recoveries, performed on L1307016-17, are below the acceptance criteria for 4-Chloroaniline (37%/29%).

The WG602875-5 MSD recovery, performed on L1307016-17, is below the acceptance criteria for 2,4-Dinitrophenol (0%) due to the concentration of this compound falling below the reported detection limit.

The WG602875-4/-5 MS/MSD recoveries, performed on L1307016-17, are below the acceptance criteria for Benzoic Acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

The WG602883-4/-5 MS/MSD recoveries, performed on L1307016-27, are outside the acceptance criteria 2,4-Dinitrotoluene (100%/100%), P-Chloro-M-Cresol (MS at 110%), 2,4-Dinitrophenol (0%/0%), and Benzoic Acid (0%/0%).

### PCBs

L1307016-16 has elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample.

The surrogate recoveries for L1307016-18, -31, and -37 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

L1307016-20 contains peaks which match the retention times for Aroclor 1260, but do not match the area

**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative (continued)

ratios typical for this aroclor. The result for Aroclor 1260 is reported as "weathered".

L1307016-22 has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

#### Pesticides

L1307016-22, -29, -31, and -37 have elevated detection limits due to the dilutions required by the sample matrices.

The surrogate recoveries for L1307016-22, -29, and -31 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

The dual column RPDs for L1307016-33 and -34 are above the acceptance criteria for Dieldrin; however, obvious column interferences are present. Due to these interferences, the lower of the two results is reported and qualified with a "P".

The dual column RPD for L1307016-37 is above the acceptance criteria for Lindane; however, no obvious column interferences are present. The higher of the two results is reported and qualified with a "P".

#### Metals

L1307016-01 through -34, -37, and -38 have elevated detection limits for all elements, except Mercury, due to the dilutions required by the sample matrices.

The WG603116-3/-4 MS/MSD recoveries for Aluminum (0%/401%), Calcium (0%/0%), Iron (0%/0%), Magnesium (MS at 70%), and Manganese (MS at 0%), performed on L1307016-17, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG603155-3/-4 MS/MSD recoveries for Aluminum (743%/530%), Calcium (318%/636%), Iron (1060%/1060%), and Manganese (170%/170%), performed on L1307016-27, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG603155-3/-4 MS/MSD recoveries, performed on L1307016-27, are outside the acceptance criteria for Lead (MS at 73%), Magnesium (MSD at 148%), Potassium (138%/127%), Sodium (MSD at 136%), and Zinc (72%/70%). A post digestion spike was performed with acceptable recoveries for Lead (90%), Magnesium



**Project Name:** 514 W. 27TH ST. NYC  
**Project Number:** E040

**Lab Number:** L1307016  
**Report Date:** 04/29/13

### Case Narrative (continued)

(91%), Potassium (113%), and Zinc (88%); and an unacceptable recovery for Sodium (122%). This has been attributed to sample matrix.

The WG603566-4/-5 MS/MSD recoveries for Mercury (0%/0%), performed on L1307016-17, do not apply because the sample concentration is greater than four times the spike amount added.

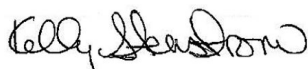
The WG603566-6/-7 MS/MSD recoveries for Mercury (0%/0%), performed on L1307016-27, do not apply because the sample concentration is greater than four times the spike amount added. In addition, the MS/MD RPD is above the acceptance criteria for Mercury (75%).

Cyanide, Total

L1307016-29 has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 04/29/13



# Sample Delivery Group Form

Laboratory Job number: L1307016

Project Number: E040

Project Name: 514 W. 27TH ST NYC

Received: 04/19/2013 19:00

Client Account: Integral Consulting, Inc.

Received by: RS/WM/WM

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt <2,7,>12

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPV Vials Present? Yes

Aqueous: Do Vials Contain Head Space? No

Soils: Is MeOH Covering the Soil? N/A Encore

Reagent H2O Preserved vials Frozen on 04/20/13 04:20

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
G	Absent	Yes	No	3.6 - IR Gun	No	No
E	Absent	Yes	No	2.3 - IR Gun	No	No



## Sample Delivery Group Form

D	Absent	Yes	No	4.5 - IR Gun	No	No
F	Absent	Yes	No	5.1 - IR Gun	No	No
C	Absent	Yes	No	2.8 - IR Gun	No	No
A	Absent	Yes	No	3.9 - IR Gun	No	No
B	Absent	Yes	No	4.3 - IR Gun	No	No

---

**Project Manager:** Matthew Beaupre

**Review Date:** 04/22/2013

**DATA USABILITY SUMMARY REPORT**  
**Laboratory Data Package L1307128**  
**April 29, 2013**

**1.0 General Information**

Patrick Medland of Geosyntec Consultants, Inc. (Geosyntec) reviewed one laboratory data package from Alpha Analytical (Mansfield, MA) for the analysis of soil vapor samples collected April 19, 2013 at the 514 W. 27th St property (Site) located in New York, New York. Samples were collected by J. Hempstead of Viridian Environmental Field Services, Montclair, New Jersey (Viridian). The data were reviewed for conformance to the requirements of the guidance document, EPA National Functional Guidelines for Data Review and adherence to project objectives outlined in the Site Quality Assurance Project Plan (QAPP) written by Integral Engineering, P.C. (2013). This Data Usability Summary Report (DUSR) and associated laboratory package is labeled as laboratory project L1307128. The Laboratory Data Package Cover Page, Sample Analysis Case Narrative (CN) (Laboratory Conformance/Non-Conformance Summary), and Data Validation Form (DVF) for this data package are provided as part of this DUSR. The sample chain-of-custody (C-O-C) form for the soil vapor samples is provided at the front of the data report.

**2.0 Intended Use of Data**

The intended use of the data reviewed as part of this DUSR is to provide current data on concentrations of chemicals of concern (COCs) in the soil vapor at the affected Site. All samples were analyzed for the full Method TO-15 analyte list:

- Method TO-15 - Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air

The data reviewed as part of this DUSR were validated as described in the EPA National Functional Guidelines for Data Review and the results of the review and validation are discussed in this DUSR. The laboratory submittals, documents, and field data that were examined include:

- Reportable data;
- CN and full Cat. B Laboratory Data Report (LDR);
- Sample C-O-C forms;
- Quality Assurance Project Plan (QAPP); and
- Field notes that record the sample collection procedures, sample handling procedures, and weather conditions.

The results of supporting quality control (QC) analyses were summarized in the CN and reported in the Laboratory Data Package.

**3.0 Introduction**

A total of seven (7) soil vapor samples, one duplicate soil vapor sample and one ambient air sample were analyzed for volatile organic compounds (VOCs). Table SV-1 lists the sample identifications cross-referenced to laboratory identifications including the date sampled.

#### ***4.0 Project Objectives***

Among other items, the project objectives were to allow determination of precision, accuracy, and comparability of soil vapor data.

#### ***5.0 Data Review and Validation Results***

The following sections include a summary of sample analytical and validation results.

##### ***5.1 Analytical Results***

As stated in the CN, no sample exceptions were noted.

##### ***5.2 Custody, Preservation, and Holding Times***

Samples were evaluated for agreement with the C-O-C. The ambient air sample (Ambient Air) collection end time on the C-O-C does not match the collection end time listed on the field collection logs and their results should be qualified (C-flagged). Samples were prepared and analyzed within the 14 days specified in the QAPP, well within the 30 day holding time specified in Method TO-15.

##### ***5.3 Calibrations***

According to the LDR, initial calibration (ICV) data met TO-15 method requirements for VOC analyses. Two compounds (3-chloropropane and carbon tetrachloride) were found in the continuing calibration analysis (CCV) performed on April 24, 2013 with relative areas in excess of the criterion of 130%. Neither compound is a COC for the Site nor was either compound detected in soil vapor or ambient air samples.

##### ***5.4 Blanks***

###### ***Laboratory Method Blank Samples***

One laboratory method blank (Lab ID: WG603791-4BLANK) was analyzed in association with all of the samples. All analytes were non-detect in the method blank at the RLs.

##### ***5.5 Internal Standard and Surrogate Recoveries***

Surrogate recoveries for soil vapor VOC analyses were within the method acceptance criteria. Internal standard areas were within TO-15 method acceptance criteria for all data.

##### ***5.6 Laboratory Control Samples***

The laboratory control sample (LCS) recoveries met the project objectives of 70-130% (or lab equivalent) recovery. No LCSD was analyzed.

##### ***5.7 Laboratory Duplicate***

The laboratory duplicate selected was the sample WG603791-5. None of the reported compounds had a % RPD in excess of 21%.

##### ***5.8 Field Precision***

The field duplicate was the sample L1307128-06D which was collected at sampling point SV-8 along with sample L1307128-05D. All duplicate results were less than 50% RPD when results were greater than five times the laboratory's reporting limit.

### ***5.9 Field Procedures***

All samples were to be collected using standard industry practices, which are detailed in the Site QAPP.

All soil vapor locations indicate helium shroud testing took place with zero helium found in the purge effluent. Supplemental information provided by the sampling technician included details regarding the leak testing method.

The QAPP also states, “a multi-gas meter will be used to measure the concentration of O<sub>2</sub>, CO<sub>2</sub>, and CH<sub>4</sub> in each probe, to assess the persistence of hydrocarbon vapors.” There are no field notes indicating this measurement took place.

Purge volumes were listed as approximately 120 cm<sup>3</sup>. Supplemental information provided by the field technician indicates that 120 cm<sup>3</sup> is a sufficient purge volume. The soil vapor samples were collected over two hours in one (1) liter Summa<sup>TM</sup> canisters. The QAPP states two (2) liter Summa<sup>TM</sup> canisters would be used.

The ambient air sample was collected in a six (6) liter Summa<sup>TM</sup> canister over a period of approximately three or five hours. The field notes indicate approximately a five hour sampling period, but the C-O-C shows approximately a three hour sampling period. The QAPP states the ambient air sample should use an eight hour regulator for sampling.

### ***5.10 Data Review and Validation Summary***

The results of this DUSR indicate that the analytical data collected in April 2013 are usable for determining approximate concentrations of VOCs in soil vapor at the Site, although it is noted that the Ambient Air results should be qualified because of a recording inconsistency on the C-O-C (C-flagged) and concentrations of 3-chloropropane and carbon tetrachloride should be considered to be estimated (“J+” qualified) due to calibration issues (see Section 5.3). Table SV-2 lists the recommended qualifiers and flags.

Table SV-1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Sample Date	Laboratory Identification	Matrix	Analysis
Ambient Air	4/19/2013	07128-01	AMBIENT AIR	TO-15
SV-7	4/19/2013	07128-02	SOIL VAPOR	TO-15
SV-6	4/19/2013	07128-03	SOIL VAPOR	TO-15
SV-9	4/19/2013	07128-04	SOIL VAPOR	TO-15
SV-8	4/19/2013	07128-05	SOIL VAPOR	TO-15
SV-8 Duplicate	4/19/2013	07128-06	SOIL VAPOR	TO-15
SV-10	4/19/2013	07128-07	SOIL VAPOR	TO-15
SV-11	4/19/2013	07128-08	SOIL VAPOR	TO-15
SV-12	4/19/2013	07128-09	SOIL VAPOR	TO-15

Table SV-2. Qualified Analytical Data

Field ID/Lab ID	Analyte	Qualification	Reason for Qualification
Ambient Air/07128-01	All compounds	C	Sample end time discrepancy of two hours between the field collection log and the C-O-C.
Ambient Air/07128-01	3-chloropropane and carbon tetrachloride	J+	Continuing calibration with relative areas in excess of 130%.
SV-7/07128-02	3-chloropropane and carbon tetrachloride	J+	Continuing calibration with relative areas in excess of 130%.
SV-6/07128-03	3-chloropropane and carbon tetrachloride	J+	Continuing calibration with relative areas in excess of 130%.
SV-9/07128-04	3-chloropropane and carbon tetrachloride	J+	Continuing calibration with relative areas in excess of 130%.
SV-8/07128-05	3-chloropropane and carbon tetrachloride	J+	Continuing calibration with relative areas in excess of 130%.
SV-8 Duplicate/07128-06	3-chloropropane and carbon tetrachloride	J+	Continuing calibration with relative areas in excess of 130%.
SV-10/07128-07	3-chloropropane and carbon tetrachloride	J+	Continuing calibration with relative areas in excess of 130%.
SV-11/07128-08	3-chloropropane and carbon tetrachloride	J+	Continuing calibration with relative areas in excess of 130%.
SV-12/07128-09	3-chloropropane and carbon tetrachloride	J+	Continuing calibration with relative areas in excess of 130%.

C - Inconsistency among documentation.

J+ - Estimated data; the reported quantitation limit or sample concentration is approximated due to continuing calibration issues.





## ANALYTICAL REPORT

Lab Number:	L1307128
Client:	Integral Consulting, Inc. 267 Broadway Fifth Floor New York, NY 10007
ATTN:	Alana Carroll
Phone:	(212) 962-4301
Project Name:	514 W. 27TH ST NYC
Project Number:	E040
Report Date:	04/29/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

---

320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307128  
**Report Date:** 04/29/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307128  
**Report Date:** 04/29/13

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on April 17, 2013. The canister certification results are provided as an addendum.

L1307128-03 The RPD of the pre- and post-flow controller calibration check (21% RPD) was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 6.3 mL/minute; the final flow rate was 7.8 mL/minute. The final pressure recorded by the laboratory of the associated canister was -6.9 inches of mercury.

Samples L1307128-02 through -09: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen due to canister size. The pressurization resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

Sample L1307128-02 has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Sample L1307128-07 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/29/13

## Indoor Air & Sub-Slab Quality Data Validation

Project No. DE0136

Validator: P Medland

Project Name W 2<sup>nd</sup> St DUSR

Project/Task Mgr: \_\_\_\_\_

Task Name Data Validation

Date of Group Summary Report Validation NA

Group No. NA

Date of Hard Copy Results Validation 8/28/13

### Validation of Laboratory Report

#### Sample Custody and Handling

Total number of samples analyzed in this data package (does not include QA samples) 8

Randomly select one in twenty samples.

Number of samples tracked for this data package 1

List samples tracked SV-9, All tracked after Ambient Air time discrepancy found

For the selected samples:

- Were all samples received by the lab under chain of custody? ☒ yes ☐ no
- Are all samples listed? ☒ yes ☐ no
- Was the chain of custody properly executed? ☒ yes ☐ no
- Were all sample identities maintained by the lab? (Evaluate by comparing sample IDs, and date and time of collection listed on generator's chain of custody with the lab's chain of custody and lab confirmation sheet, as applicable.) ☒ yes ☐ no
- Were the samples collected, preserved and shipped in accordance with project specs? ☐ yes ☒ no  
(Attach Canister Field Data Record, Interview Form, House Inspection and Summa Canister Installation Checklist, and Floor Plan Sketch, as appropriate) Ambient Air sample end time does not match on sample collection sheet & COC

If any problems were detected in the review of selected samples, all samples represented by the data package must be evaluated. Was it necessary to evaluate all samples? ☒ yes ☐ no

If any problems are identified with the chain of custody documentation or sample identification, all affected samples are flagged with a "C".

#### Field Procedures

##### Sub-Slab Purging

Was the proper volume purged from the sub-slab assembly?

☐ yes ☐ no \* see notes

Were three sample volumes purged?

☒ yes ☐ no

Were helium readings below 5% of the helium concentration under the shroud?

☒ yes ☐ no

##### Canister Pressure

Were any initial pressures less than 27" Hg?

☐ yes ☒ no

Flag all results for all affected samples with "g".

Were any final field vacuums equal to 0" Hg?

☐ yes ☒ no

Flag all results for all affected samples with "<".

##### Test Time

Were any test time totals more than 9 hours?

☐ yes ☒ no

Were any test time totals less than 7 hours?

☒ yes ☐ no

**Holding Times**

Were any holding times exceeded (30 days)?

  yes ✓no

Flag all results for all affected samples with "H".

**General**

Provide additional comments below and on attached sheets, as necessary, for any problems or issues associated with sample collection, site conditions, or documentation.

\* Field notes do not include size of tubing or calculations of purge volumes  
but ~120 cc purged at each sampling point (4.5-5 ft. depths)

\* Ambient Air sample run times listed as either 1044 → 1545 (Field notes) or  
1044 → 1345 (COC)

\* Ambient Air sample regulator set for 8 hr sample

**Field Quality Assurance****Field Duplicates (1 per day)**

Is there a field duplicate included with this group?

✓yes   no

If no, flag all results for all samples in this group with "ID".

Were any compounds detected in the field duplicate at concentrations in excess of 5 times the laboratory's reporting limit?

✓yes   no   n/a

If yes, are all duplicate results less than 50% RPD<sup>1</sup> when results are greater than five times the laboratory's reporting limit?

✓yes   no   n/a

Flag all detectable concentrations in the duplicated samples that do not meet this criterion with a "P" on the attached Group Summary Report.

**Field Blanks (1 per day)**

Is there a trip blank included at the required frequency?

Not Required in QAPP   yes   no

Were any compounds detected in the trip blank at concentrations in excess of the laboratory's reporting limit?

  yes   no ✓n/a

For each sample included in this group (and/or the previous group, if applicable) flag all detectable sample concentrations of the compound(s) detected in the trip blank with a "T" if the blank's concentration exceeds 10% of the sample's concentration.

Provide this document with attachments to Project/Task Manager.

### Verification of Laboratory Procedures

**Duplicate Control Samples** (see Laboratory Control Samples (LCS) and Laboratory Control Sample Duplicate (LCSD), 1/20 samples)

For the reported compounds, are the laboratory reported ranges between 70% and 130%? ☒ yes ☐ no

**Method Blank** (see Method Blank Report following Duplicate Control Sample Report, 1/10 samples)

Are all Method Blank results ND at the Reporting Limit? ☒ yes ☐ no

Discuss any method blank issues identified by the laboratory:

---

---

---

**Initial Calibration Verification** (1/method/day)

For the reported compounds, are all Relative Standard Deviations (RSDs) less than 30%? ☒ yes ☐ no

For the reported compounds, are all Average Response Factors (AvgRFs) greater than or equal to 0.1? ☒ yes ☐ no

**Continuing Calibration Verification** (1/method/day)

For the reported compounds, are all the laboratory reported ranges between 70% and 130%? ☐ yes ☒ no

**Surrogate Recovery**

For the reported compounds, are all recoveries within 70% to 130%? ☒ yes ☐ no

**Tuning Procedure**

Was GCMS tuned according to NYSDOH guidance procedures? ☒ yes ☐ no

Flag all detected concentrations for all affected samples with "~".

**General**

Did the lab properly flag results not meeting Acceptance Criteria? ☒ yes ☐ no

If not identify the additional flagging requirements. Contact the lab to discuss the issues and request appropriate replacement pages.

3-chloropropane and carbon tetrachloride had continuing calibration ranges reported in excess of 130%. The lab flagged at >140%

### Canister Acceptance Criteria

#### Canister Pressure

Do any initial post-test lab vacuums vary more than 2" Hg in relation to the final field reading?

☐ yes ☒ no ☐ n/a

If yes, flag all results for all affected samples with "G".

Discuss or document canister pressure issues not previously addressed.

---

---

#### Canister Cleaning

Was cleaning of the canisters documented?

☒ yes ☐ no

Flag all detected concentrations for all affected samples with "+".

#### General

Discuss or document other quality assurance issues not previously addressed, if any. An "R" flag may be used for unusual cases to indicate rejected analyte results.

---

A multi-gas meter to measure  $O_2$ ,  $CO_2$  +  $CH_4$  in each probe was specified in the QAPP. Field notes do not show one was used.

---

Provide this document with attachments to Project/Task Manager.

**DATA USABILITY SUMMARY REPORT**  
**Laboratory Data Package L1307221**  
**April 30, 2013**

## **1.0 General Information**

Martina Litasi of Geosyntec Consultants, Inc. reviewed one laboratory data package from Alpha Analytical (Westborough, MA) for the analysis of an oil sample collected April 23, 2013 at the 514 West 27<sup>th</sup> Street property (Site) located in New York, New York. The sample was collected by James L'Esperance of Integral Consulting, Inc., New York, New York (Integral). The data were reviewed for conformance to the requirements of the guidance document EPA National Functional Guidelines for Data Review (EPA NFG) for organic compounds and adherence to project objectives outlined in the Site Quality Assurance Project Plan<sup>1</sup> (QAPP).

This Data Usability Summary Report (DUSR) and associated laboratory package is labeled as laboratory project L1307221. The sample analysis Case Narrative (CN) and Sample Delivery Group Form (SDGF) for this data package are provided as part of this DUSR. The sample chain-of-custody (c-o-c) form for the samples is provided near the front of the Laboratory Data Report (LDR).

## **2.0 Intended Use of Data**

The intended use of the data reviewed as part of this DUSR is to provide an interpretation of the chromatography of oil encountered in MW-1 at the Site. All samples were analyzed for:

- EPA Method 8015C(M) – Gasoline Range Organics (GRO) by GC/FID; and
- EPA Method 8015D(M) – Total Petroleum Hydrocarbons (TPH) by GC/FID;

The data reviewed as part of this DUSR were validated as described in the EPA NFGs and the results of the review and validation are discussed in this DUSR. The laboratory submittals, documents, and field data that were examined include:

- Reportable and raw data;
- CN and LDR;
- Sample c-o-c forms;
- Site QAPP; and
- Field notes that record the calibration of field instruments, sample collection procedures, and sample handling procedures.

The results of supporting quality control (QC) analyses were summarized in the CN and reported on Forms 2 through 8 (for each method/analysis) in the LDR.

## **3.0 Introduction**

A total of one (1) non-aqueous (oil) sample was analyzed for all compounds listed in Section 2.0. Table 1 lists the sample identifications cross-referenced to laboratory identifications including the date sampled.

## **4.0 Project Objectives**

The project objectives were to allow determination of precision, accuracy, and comparability of data. Per the project QAPP, one field duplicate and one field blank are required per 20 samples collected for each matrix. One trip blank is required with each sample delivery group (SDG) of VOC samples.

---

<sup>1</sup> Appendix E, Quality Assurance Project Plan for the West 28<sup>th</sup> Street Remedial Investigation Work Plan for the property located at 505 W 27<sup>th</sup> Street, New York, NY 10001, Block 699, Lots 43 and 44, NYSDEC BCP No. C231082. Integral Engineering P.C., February 19, 2013.



Additionally, one site-specific matrix spike/matrix spike duplicate (MS/MSD) (per 20 samples) will be submitted for all required analyses for each matrix.

Analytical data objectives were not specified in the QAPP; therefore, laboratory and NFG specific criteria will be used and are presented in the following sections.

## **5.0 Data Review and Validation Results**

The following sections include a summary of sample analytical and validation results.

### **5.1 Analytical Results**

No exceptions were noted in the CNs. All data were reported “As Received”. As summarized in the CNs, none of the laboratory exceptions appear to have a practical impact on the usability of the data for the COCs at the Site; therefore, the laboratory results were accepted, and non-detected (ND) results are reported as less than the value of the reporting limit (RL)/method detection limit (MDL).

### **5.2 Preservation and Holding Times**

Samples were evaluated for agreement with the c-o-c. All field notes and laboratory sample log-ins were consistent with c-o-cs. As noted in the CN and SDGF all samples were received in the appropriate containers and in good condition. Sample receipt temperatures were within the acceptance criteria of  $4 \pm 2$  °C. Samples were preserved in the field and prepared and analyzed within holding times specified in the QAPP and SW-846 Table 2-36. There were two discrepancies that are not likely to affect the analytical results but should be noted:

- It was recorded on the SDGF that the sample cooler did not have a custody seal as required per the QAPP. If samples were hand delivered or delivered by laboratory courier, no seals are required.
- The sample analysis was not indicated on the field c-o-c, but since the samples were held until further contact from Integral, the analysis was recorded by the lab on the c-o-c prior to sample analysis.

### **5.3 Calibrations**

Initial and continuing calibrations were performed using required standard concentrations and at required frequencies. All ICV and CCV data met EPA SW-846 and Standard Method requirements for all analyses.

### **5.4 Blanks**

Trip Blank and Field Blank QAPP requirements are listed above in Section 4.0.

#### *5.4.1 Field and Trip Blank Samples*

No trip blank samples were required for analysis in this sample delivery group (no VOCs). No field blank samples were collected with this SDG; however, one field blank was collected on 4/23/13 for the project samples submitted on 4/23/13 and reported in LDR L1307222. This satisfies the 1 in 20 requirement per the QAPP and samples in this report should be evaluated with the 4/23/13 field blank.

#### *5.4.2 Laboratory Blank Samples*

All analytes were ND at the RL in the method blanks. The laboratory interval standard and surrogate recoveries for all laboratory blanks met the project objectives.

### **5.5 Internal Standard and Surrogate Recoveries**

Internal standard areas and retention times met acceptance criteria for all analyses. Surrogates were added to all samples and blanks as required by method SW-846. All surrogate recoveries were within QC limits.

### **5.6 Laboratory Control Samples**

The laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries met the project objectives of 80-120% (GRO) or 50-130% (TPH) recovery (or lab equivalent).

### **5.7 Laboratory Duplicate**

The laboratory duplicate was performed on sample -01 and the relative percent difference (RPD) was not calculated due to concentrations detected above the MDL but below the RL (qualified "J")

### **5.8 Matrix Spike/Matrix Spike Duplicates**

The laboratory MS results met the project objectives of 80-120% recovery. The MS was performed on sample -01 (MW-1\_042313). No MSD was performed.

### **5.9 Field Procedures**

The sample was collected using standard industry practices, which are detailed in the Site QAPP. No details are provided in the field notes regarding daily field parameter meter calibration. Per the QAPP, one field duplicate sample was required per each media; however, none were collected with this SDG.

### **5.10 Data Review and Validation Summary**

The results of this DUSR indicate that the analytical data collected in L1307221 are usable for interpretation of the chromatography of the oil in MW-1 at the Site. However, the absence of a field duplicate sample does not allow a check of the sampling and analytical reproducibility.

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Sample Date	Laboratory Identification	Matrix	Analyses
MW-1_042313	4/23/2013	L1307221-01	Oil	SW-846 8015C(M) and 8015D(M)

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307221  
**Report Date:** 04/30/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W. 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307221  
**Report Date:** 04/30/13

### Case Narrative (continued)

#### Total Petroleum Hydrocarbons (TPH) by GC/FID

The sample was extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample is conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of 73 reference standards are also utilized to provide the best possible sample match. Quantitative determination of the sample hydrocarbon concentration is performed in accordance with EPA Method 8015M. The sample total hydrocarbon concentration and all associated quality control data are included in the report.

All quality control parameters met the specified criteria.

The following qualitative information is based on a tentative interpretation of chromatographic pattern recognition and boiling point ranges:

#### Total Petroleum Hydrocarbon Identification

Sample MW-1\_042313 (L1307221-01) contains hydrocarbons eluting in the range of n-Pentadecane (C15) to after the elution of n-Hexatriacontane (C36).

Based on the data generated sample, MW-1\_042313 (L1307221-01) contains material eluting in the mid to heavy molecular weight ranges of the chromatogram. The material appears to be similar in nature to lubricating, motor or synthetic oil like product.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Elizabeth Porta

Title: Technical Director/Representative

Date: 04/30/13

**Project Name:** 514 W. 27TH ST NYC**Lab Number:** L1307221**Project Number:** E040**Report Date:** 04/30/13**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Reagent H2O Preserved Vials Frozen on:** NA**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1307221-01A	Vial HCl preserved	A	N/A	3.6	Y	Absent	TPH-GRO(14)
L1307221-01B	Vial HCl preserved	A	N/A	3.6	Y	Absent	TPH-GRO(14)
L1307221-01C	Vial HCl preserved	NA	NA		Y	Absent	TPH-GRO(14)
L1307221-01D	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	TPH-GRO(14)
L1307221-01E	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	-

\*Values in parentheses indicate holding time in days

**DATA USABILITY SUMMARY REPORT**  
**Laboratory Data Package L1307222**  
**April 30, 2013**

## **1.0 General Information**

Martina Litasi of Geosyntec Consultants, Inc. reviewed one laboratory data package from Alpha Analytical (Westborough, MA) for the analysis of water samples collected on April 23, 2013 at the 514 West 27<sup>th</sup> Street property (Site) located in New York, New York. Samples were collected by James L'Esperance of Integral Consulting, Inc., New York, New York (Integral). The data were reviewed for conformance to the requirements of the guidance document EPA National Functional Guidelines for Data Review (EPA NFG) for organic and inorganic compounds and adherence to project objectives outlined in the Site Quality Assurance Project Plan<sup>1</sup> (QAPP).

This Data Usability Summary Report (DUSR) and associated laboratory package is labeled as laboratory project L1307222. The sample analysis Case Narrative (CN) and Sample Delivery Group Form (SDGF) for this data package are provided as part of this DUSR. The sample chain-of-custody (c-o-c) form for the samples is provided near the front of the full Cat. B Laboratory Data Report (LDR).

## **2.0 Intended Use of Data**

The intended use of the data reviewed as part of this DUSR is to provide current data on concentrations of chemicals of concern (COCs) in the water at the affected Site. Samples were analyzed for:

- EPA Method 8260B – Volatile Organic Compounds (VOCs) by GC/MS;
- EPA Method 8270D – Semi-volatile Organic Compounds (SVOCs) by GC/MS;
- EPA Method 8082A – Polychlorinated Biphenyls (PCBs) by GC;
- EPA Method 8081B – Organochlorine Pesticides (OCPs) by GC;
- EPA Method 6020A – Total and Dissolved Metals; and
- EPA Method 7470A – Total and Dissolved Mercury.

The data reviewed as part of this DUSR were validated as described in the EPA NFGs and the results of the review and validation are discussed in this DUSR. The laboratory submittals, documents, and field data that were examined include:

- Reportable and raw data;
- CN and full Cat. B LDR;
- Sample c-o-c forms;
- Site QAPP;
- Field notes that record the calibration of field instruments, sample collection procedures, and sample handling procedures; and
- Field sampling forms.

The results of supporting quality control (QC) analyses were summarized in the CN and reported on Forms 2 through 8 (for each method/analysis) in the LDR.

## **3.0 Introduction**

A total of seven (7) water samples were analyzed for compounds listed in Section 2.0. Table 1 lists the sample identifications cross-referenced to laboratory identifications including the date sampled.

---

<sup>1</sup> Appendix E, Quality Assurance Project Plan for the West 28<sup>th</sup> Street Remedial Investigation Work Plan for the property located at 505 W 27<sup>th</sup> Street, New York, NY 10001, Block 699, Lots 43 and 44, NYSDEC BCP No. C231082. Integral Engineering P.C., February 19, 2013.

## 4.0 Project Objectives

The project objectives were to allow determination of precision, accuracy, and comparability of data. Per the project QAPP, one field duplicate and one field blank are required per 20 samples collected for each matrix. One trip blank is required with each sample delivery group (SDG) of VOC samples.

Additionally, one site-specific matrix spike/matrix spike duplicate (MS/MSD) (per 20 samples) will be submitted for all required analyses for each matrix.

Analytical data objectives were not specified in the QAPP; therefore, laboratory and NFG specific criteria will be used and are presented in the following sections.

## 5.0 Data Review and Validation Results

The following sections include a summary of sample analytical and validation results.

### 5.1 Analytical Results

As stated in the CNs, some sample exceptions were noted, and qualified analytical data are listed in Table 2. As summarized in the CNs, none of the laboratory exceptions appear to have a practical impact on the usability of the data for the COCs at the Site; therefore, the laboratory results were accepted, and non-detected (ND) results are reported as less than the value of the reporting limit (RL)/method detection limit (MDL).

### 5.2 Preservation and Holding Times

Samples were evaluated for agreement with the c-o-c. All field notes and laboratory sample log-ins were consistent with c-o-cs. As noted in the CN and SDGF all samples were received in the appropriate containers and in good condition with one exception noted below. Sample receipt temperatures were within the acceptance criteria of  $4 \pm 2$  °C. Samples were preserved in the field (and laboratory for dissolved metals and SVOCs) and prepared and analyzed within holding times specified in the QAPP and SW-846 Table 2-36. There were three discrepancies that are not likely to affect the analytical results but should be noted:

- It was recorded on the SDGF that the 3 sample coolers did not have custody seals as required per the QAPP. If samples were hand delivered or delivered by laboratory courier, no seals are required.
- As noted in the CN, the sample aliquots/containers for dissolved metals and SVOC analyses were not received by the laboratory. Sample aliquots for these analyses were taken from an unpreserved container and laboratory preserved.
- The trip blank and field blank sample collection times were not recorded in the field notebook or on the c-o-c.

### 5.3 Calibrations

Initial and continuing calibrations were performed using required standard concentrations and at required frequencies. All ICV and CCV data met EPA SW-846 and Standard Method requirements for all analyses.

### 5.4 Blanks

Trip Blank and Field Blank QAPP requirements are listed above in Section 4.0.

#### 5.4.1 Field and Trip Blank Samples

One field blank and one trip blank were collected on 4/23/13 for the project samples submitted on 4/23/13. As noted in the CN, acetone was detected in both the field blank and trip blank above the MDL



but below the RL. Additionally, all other analytes were ND at the RL in the field blank with the exception of:

- Total aluminum, total antimony, total and dissolved calcium, total chromium, total and dissolved manganese, total zinc, dissolved barium, and dissolved nickel were detected above the MDL but below the RL qualified “J” by the lab as required.
- Dissolved sodium and dissolved zinc were detected above the RL.

Integral should evaluate the results of the field blank sample to determine if the associated samples are affected by field blank detections.

#### *5.4.2 Laboratory Blank Samples*

Total antimony, total calcium, and total manganese were detected above the MDL but below the RL in the laboratory method blank for batch WG603571-1 and qualified “J” by the lab as required. Dissolved silver, dissolved sodium, dissolved thallium, and dissolved zinc were detected above the MDL but below the RL in the laboratory method blank for batch WG604339-1 qualified “J” by the lab as required. Dissolved arsenic, dissolved silver, and dissolved thallium were detected above the MDL but below the RL in the laboratory method blank for batch WG604841-1 qualified “J” by the lab as required. All other compounds for all other analyses were ND at the RL. The laboratory interval standard and surrogate recoveries for all laboratory blanks met the project objectives. Associated qualified samples are shown on Table 2.

### **5.5 Internal Standard and Surrogate Recoveries**

Internal standard areas and retention times met acceptance criteria for all analyses. Surrogates were added to all samples and blanks as required by method SW-846. All surrogate recoveries were within QC limits.

### **5.6 Laboratory Control Samples**

The laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries met the project objectives of 70-130% (VOCs), 40-140% (SVOCs/PCBs), 30-150% (OCPs), or 80-120% (metals) recovery (or lab equivalent). The LCS % recoveries for 2,4-dinitrotoluene and p-chloro-m-cresol were above acceptance criteria; however, associated sample results are ND and are therefore not qualified. Additionally, the LCS/LCSD relative percent difference (RPD) for endosulfan sulfate was above acceptance criteria; however, associated sample results are ND and are therefore not qualified.

### **5.7 Laboratory Duplicate**

The laboratory duplicate for dissolved metals analysis (6010C/7471B) was performed on sample -06 (FIELD BLANK). The duplicate sample RPDs were within QC limits.

### **5.8 Matrix Spike/Matrix Spike Duplicates**

The laboratory MS/MSD results for VOC analysis (8260B) met the project objectives (70-130% recovery). The laboratory MS/MSD results for SVOC analysis (8270D) met the project objectives (40-140% recovery), with the exception of 3,3-dichlorobenzidine and 4-chloroaniline. As these compounds were not detected in the associated sample, no qualifiers are required. The laboratory MS/MSD results for total and dissolved metals analysis (6020A) and dissolved mercury (7470A) met the project objectives (80-120% or 70-130% recovery), with exceptions summarized in Table 2. The MS/MSD was performed on sample -03 (MW-4\_042313).

The laboratory MS/MSD results for total mercury (7470A) met the project objectives (70-130% recovery). The MS was performed on sample -01 (MW-2\_042313).

## **5.9 Field Procedures**

All samples were collected using standard industry practices, which are detailed in the Site QAPP. Field QC requirements were met. No details are provided in the field notes regarding daily field parameter meter calibration. Integral should evaluate the results of the field duplicate sample to determine if the associated sample and duplicate have met the project objectives (Section 4.0).

## **5.10 Data Review and Validation Summary**

The results of this DUSR indicate that the analytical data collected in L1307222 are usable for determining concentrations of the COCs in groundwater at the Site, although the concentrations of compounds listed on Table 2 should be considered to be estimated (“J” qualified) or not detected (“U” qualified).

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Sample Date	Laboratory Identification	Matrix	Analyses
MW-2_042313	4/23/2013	L1307222-01	Water	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
MW-3_042313	4/23/2013	L1307222-02	Water	SW-846 8260B, 8270D, 6020A, and 7470A
MW-4_042313	4/23/2013	L1307222-03	Water	SW-846 8260B, 8270D, 6020A, and 7470A
MW-5_042313	4/23/2013	L1307222-04	Water	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
MW-5_042313_DUP	4/23/2013	L1307222-05	Water	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
FIELD BLANK	4/23/2013	L1307222-06	Water	SW-846 8260B, 8270D, 8082A, 8081B, 6020A, and 7470A
TRIP BLANK	4/23/2013	L1307222-07	Water	SW-846 8260B

Table 2. Qualified Analytical Data

Field ID / Lab ID	Analyte	Qualification	Reason for Qualification
MW-2_042313 / L1307222-01	Acetone	U	MB conc. above MDL, but below RL Sample concentration below RL
MW-3_042313 / L1307222-02	Acetone	U	MB conc. above MDL, but below RL Sample concentration below RL
MW-4_042313 / L1307222-03	Acetone	U	MB conc. above MDL, but below RL Sample concentration below RL
MW-5_042313 / L1307222-04	Acetone	U	MB conc. above MDL, but below RL Sample concentration below RL
MW-5_042313_DUP / L1307222-05	Acetone	U	MB conc. above MDL, but below RL Sample concentration below RL
FIELD BLANK / L1307222-06	Acetone	U	MB conc. above MDL, but below RL Sample concentration below RL
MW-2_042313 / L1307222-01	Total Antimony, Dissolved Arsenic	J+	MB conc. above MDL, but below RL Sample concentration above RL
MW-2_042313 / L1307222-01	Dissolved Silver, Dissolved Thallium	U	MB conc. above MDL, but below RL Sample concentration below RL
MW-5_042313 / L1307222-04	Total Antimony, Dissolved Arsenic, Dissolved Silver	J+	MB conc. above MDL, but below RL Sample concentration above RL
MW-5_042313 / L1307222-04	Dissolved Thallium	U	MB conc. above MDL, but below RL Sample concentration below RL
MW-5_042313_DUP / L1307222-05	Total Antimony, Dissolved Arsenic	J+	MB conc. above MDL, but below RL Sample concentration above RL
MW-5_042313_DUP / L1307222-05	Dissolved Silver, Dissolved Thallium	U	MB conc. above MDL, but below RL Sample concentration below RL
FIELD BLANK / L1307222-06	Dissolved Sodium, Dissolved Zinc	J+	MB conc. above MDL, but below RL Sample concentration above RL
FIELD BLANK / L1307222-06	Total Antimony, Total Calcium, Total Manganese	U	MB conc. above MDL, but below RL Sample concentration below RL
MW-4_042313 / L1307222-03	Total Selenium	J	MS/MSD recovery greater than 125% and PDS %REC within limits
MW-4_042313 / L1307222-03	Dissolved Antimony	J	MS/MDS recovery less than 80% and PDS %REC within limits
MW-4_042313 / L1307222-03	Dissolved Iron	J	MS/MSD recovery greater than 120% and PDS %REC within limits
MW-4_042313 / L1307222-03	Dissolved Silver	UJ	MS/MDS recovery less than 80% and PDS %REC within limits
MW-4_042313 / L1307222-03	Dissolved Selenium	J+	MS/MSD recovery greater than 120% PDS %REC greater than 120%

U - The analyte was detected in the associated method blank above the reported sample quantitation limit but below the reporting limit. The associated sample concentrations are qualified as "non-detect".

UJ - The analyte was analyzed for but was not detected above the sample reporting limit. The associated value is an estimate and may be inaccurate or imprecise.

J - Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.

plus (+) - Bias in sample result likely to be high.

minus (-) - Bias in sample result likely to be low.

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

The samples were received without the containers for Dissolved Metals and Semivolatile Organics analysis. An aliquot was taken from an unpreserved container and preserved appropriately.

The element list for metals analysis was specified by the client.

#### Volatile Organics

L1307222-06, -07: The Field Blank and Trip Blank have results for Acetone present below the reporting limit.

The sample vials were verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

#### Semivolatile Organics

The WG603893-4 MS recoveries, performed on L1307222-03, were below the acceptance criteria for 3,3'-Dichlorobenzidine (28%) and 4-Chloroaniline (38%).

The WG603893-4/-5 MS/MSD RPDs, performed on L1307222-03, are above the acceptance criteria for 3,3'-Dichlorobenzidine (48%) and 4-Chloroaniline (33%).

#### Total Metals

L1307222-02 and -03 have elevated detection limits for all elements due to the dilutions required by matrix interferences encountered during analysis.

The WG603571-3/-4 MS/MSD recoveries, performed on L1307222-03, are above the acceptance criteria for Selenium (138%/139%). A post digestion spike was performed with an acceptable recovery of 122%.

The WG603571-3/-4 MS/MSD recoveries for Calcium (600%/380%), Magnesium (163%/147%), Potassium (173%/163%), and Sodium (410%/350), performed on L1307222-03, do not apply because the sample concentrations are greater than four times the spike amount added.

**Project Name:** 514 W 27TH ST NYC  
**Project Number:** E040

**Lab Number:** L1307222  
**Report Date:** 04/30/13

### Case Narrative (continued)

#### Dissolved Metals

L1307222-02 and -03 have elevated detection limits due to the dilutions required by matrix interferences encountered during analysis.

L1307222-02: The dissolved result is greater than the total result for Sodium. The sample containers were verified as being labeled correctly by the laboratory, and aliquots were analyzed from each bottle, confirming the original results.

The WG604141-3/-4 MS/MSD recoveries, performed on L1307222-03, are above the acceptance criteria for Mercury (131%/131%). A post digestion spike was performed with an acceptable recovery of 107%.


The WG604841-3/-4 MS/MSD recoveries, performed on L1307222-03, are outside the acceptance criteria for Antimony (77%/78%), Iron (147%/124%), and Silver (MS at 73%). A post digestion spike was performed with acceptable recoveries for Antimony (124%), Iron (124%), and Silver (80%).

The WG604841-3/-4 MS/MSD recoveries, performed on L1307222-03, are above the acceptance criteria for Selenium (140%/141%). A post digestion spike was performed with an unacceptable recovery of 131%. This has been attributed to sample matrix.

The WG604841-3/-4 MS/MSD recoveries for Calcium (480%/190%), Potassium (MSD at 72%), and Sodium (MSD at 0%) performed on L1307222-03, do not apply because the sample concentrations are greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 04/30/13



# Sample Delivery Group Form

Laboratory Job number: L1307222

Project Number: E040

Project Name: 514 W 27TH ST NYC

Received: 04/23/2013 16:32

Client Account: Integral Consulting, Inc.

Received by: SH/WM/WM

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt <2,7

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? Yes

Aqueous: Do Vials Contain Head Space? No

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	3.6 - IR Gun	No	No
B	Absent	Yes	No	2.0 - IR Gun	No	No





## Sample Delivery Group Form

C	Absent	Yes	No	3.8 - IR Gun	No	No
---	--------	-----	----	--------------	----	----

---

**Project Manager:** Matthew Beaupre

**Review Date:** 04/25/2013