

**522-532 WEST 29<sup>TH</sup> STREET**

**MANHATTAN, NEW YORK**

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# **Remedial Investigation Report**

**NYC VCP Site Number: 13CVCP151M**

**E Designation Number: 13EHAN427M**



**Prepared for:**

W29 Highline Owners LLC  
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June 2013

# REMEDIAL INVESTIGATION REPORT

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## LIST OF ACRONYMS



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

# CERTIFICATION

I, James M. Bellew am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 522-532 West 29<sup>th</sup> Street, (NYC VCP Site No. 13CVCP151M). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.



James M. Bellew

7/25/2013

A handwritten signature in blue ink that reads "James M. Bellew". The signature is written in a cursive style and is positioned above a horizontal line.

Qualified Environmental Professional

Date

Signature

## EXECUTIVE SUMMARY

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



### **Site Location and Current Usage**

The Site is located at 522-532 West 29<sup>th</sup> Street in the Chelsea section of Manhattan, and is identified as Block 700, Lots 47, 48, and 49 on the New York City Tax Map. The site is 19,749 square feet and is located along the southern portion of West 29<sup>th</sup> Street between 10<sup>th</sup> and 11<sup>th</sup> Avenues. The Site is bounded by West 29th Street and Block 700 Lots 16, 22, 23, and 24 (under-development parking facility, art gallery, mixed-use multi-story commercial and residential building, and a storage facility, respectively) to the north, Block 700 Lot 9 (vacant land) to the south, Block 700 Lot 45 (auto repair garage) to the east, and Block 700 Lot 53 (multi-story religious facility) to the west. Currently the site is occupied by three buildings: a two-story brick building on Lot 47, and one-story buildings on Lots 48 and 49. The buildings were most recently occupied by a catering company and two art galleries, respectively. A Site location map is attached as Figure 1.

### **Summary of Proposed Redevelopment Plan**

The proposed future use of the Site will consist of redeveloping the lot with a 11-story mixed use building. Layout of the proposed site development is presented in Figure 2. The current zoning designation is C6-3. The proposed use is consistent with existing zoning for the property.

The proposed development project will consist of demolishing the current buildings and constructing a new mixed-use building. The new building will feature eleven floors and one basement level which will be used for commercial space, storage, utility rooms, and residential space. The basement will be primarily used for storage and utility rooms. Floor 1 will be used for commercial space and Floors 2 through 11 will be used for residential space. The building will rise approximately 135 feet above current street level. An approximate 15' by 100' parking area will be located on the western portion of the Site.



The top of the basement floor will be approximately 12 to 14 feet below sidewalk level, requiring excavation of the entire footprints of Lots 48 and 49 to approximately 15 feet below grade, with additional for the elevator pit to approximately 19 feet below sidewalk level. Lot 47, the proposed parking area, will be excavated to approximately 2 to 3 feet below sidewalk level in order to achieve Track 1 SCOs for the Site. A total of approximately 9,905 cubic yards (14,856 tons) of soil will be removed.

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

The Site is currently in a mixed-use neighborhood approximately 1,500 feet east of the Hudson River. The current businesses in the area are various art galleries, a juice company, auto repair shop and a storage facility. A review of the NYCOER Searchable Property Environmental E-Database (SPEED) shows two Petroleum Bulk Storage centers within a half mile radius. In addition, the SPEED database shows numerous sites with known chemical releases.

The Areas of Concern (AOC) identified for this Site include:

1. Urban Fill present at the Site from grade to as much as 5 feet below ground surface (bgs)
2. Underground storage tank that was closed-in-place at the 532 W. 29<sup>th</sup> St. building
3. Historical Industrial and Automotive Site use
4. Former spill at the 524 W. 29<sup>th</sup> St. building
5. “E” designation for hazardous materials, air quality and noise

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

GZA performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (e.g., structures, buildings, etc.);
2. Drilled eight soil borings across the Site, and collected eighteen soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells at the Site and utilized an existing installed well to collect four groundwater samples for chemical analysis to evaluate groundwater quality; and

4. Installed six soil vapor probes at the Site and collected six soil vapor samples for chemical analysis to evaluate soil vapor quality.

### Summary of Environmental Findings



1. Elevation of the property ranges from 10 to 12 feet.
2. Depth to groundwater ranges from 9 to 10 feet at the Site.
3. Groundwater flow is generally from east to west beneath the Site.
4. Depth to bedrock is approximately 20 to 40 feet bgs at the Site.
5. The stratigraphy of the site, from the surface down, consists of 2 feet of concrete underlain by 6 to 13 feet of fill underlain by 5 to 21 feet of loose to dense Sand underlain by 4 to 10 feet of Sand and Silt underlain by weathered rock
6. No PCBs were detected from the soil samples collected. Several VOCs including acetone, methylene chloride, benzene, butanone, dioxane and DCE were detected in three soil samples exceeding Unrestricted use SCOC. No VOCs were detected above their respective Restricted Residential SCOs in any soil sample. Several SVOCs were detected in soil samples from the Site with eight exceeding their respective Restricted Residential SCOs. These SVOCs included benzo(a)anthracene (max. of 5.4 mg/kg), benzo(a)pyrene (max. of 4.8 mg/kg), benzo(b)fluoranthene (max. of 6 mg/kg), benzo(k)fluoranthene (max. of 2.3 mg/kg), chrysene (max. of 6 mg/kg), dibenzo(a,h)anthracene (max. of 0.78 mg/kg), indeno(1,2,3-cd)pyrene (max. of 3.2 mg/kg) and 2-methylnaphthalene (max. of 23 mg/kg). Metals, including barium (maximum of 360 mg/kg), copper (maximum of 100 mg/kg), iron (maximum of 16000 mg/kg), lead (maximum of 1200 mg/kg), mercury (maximum of 4.4 mg/kg), nickel (maximum of 32 mg/kg) and zinc iron (maximum of 410 mg/kg) exceeded Unrestricted Residential (Track 1) SCOs, and of these barium, iron, lead and mercury also exceeded Restricted Residential (Track 2) SCOs.
7. Several VOCs were detected above NYSDEC Part 703.5 Groundwater Quality Standards (GQS) and included 1,1-dichloroethene (max. of 12 ug/l), cis-1,2-dichloroethene (max. of 160 ug/l), benzene (max. of 12 ug/l), n-butylbenzene (max. of 11ug/l), sec-butylbenzene (max. of 12 ug/l), isopropylbenzene (max. of 12 ug/l), naphthalene (max. of 35 ug/l), and n-propylbenzene (max. of 37 ug/l). Three SVOCs including acenaphthene (max. of 20

ug/l), naphthalene (max. of 24 ug/l) and benzo(a)pyrene (max. of 0.11 ug/l) were detected above their respective GQS. Four metals including iron, magnesium, manganese and sodium were detected in groundwater above their respective GQS. No PCBs were detected in any of the collected groundwater samples.



8. Moderate to high concentrations of petroleum and chlorinated VOCs were observed in each vapor sampling point. Tetrachloroethene (PCE) was identified in all samples at concentrations less than  $10 \mu\text{g}/\text{m}^3$  except at one sampling point, at  $288 \mu\text{g}/\text{m}^3$ . Trichloroethene (TCE) was identified in all samples at concentrations less than  $5 \mu\text{g}/\text{m}^3$  except at one sampling point, at  $228 \mu\text{g}/\text{m}^3$ . 1,1,1-Trichloroethane (TCA) was detected in one of five samples at  $231 \mu\text{g}/\text{m}^3$ . These results for PCE, TCE and TCA are above the monitoring level ranges of the State DOH soil vapor guidance matrix and indicate that remedial action to address soil vapor is warranted. Highest concentrations of PCE, TCE and TCA are near the old spill location. Petroleum related VOCs included ethanol ( $999 \mu\text{g}/\text{m}^3$ ), acetone ( $504 \mu\text{g}/\text{m}^3$ ), n-hexane ( $7,820 \mu\text{g}/\text{m}^3$ ), cyclohexane ( $4,200 \text{ g}/\text{m}^3$ ), trimethylpentane ( $54,600 \mu\text{g}/\text{m}^3$ ) and ethylbenzene ( $11,100 \mu\text{g}/\text{m}^3$ ).

# REMEDIAL INVESTIGATION REPORT

## 1.0 SITE BACKGROUND



W29 Highline Owners LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.45-acre property site located at 522-532 West 29<sup>th</sup> Street in the Chelsea section of Manhattan, New York. Mixed commercial residential use is proposed for the property. The RI work was performed between May 13, 2013 and May 15, 2013. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

### 1.1 Site Location and Current Usage

The Site is located at 522-532 West 29th Street in the Chelsea section of Manhattan, and is identified as Block 700, Lots 47, 48, and 49 on the New York City Tax Map. The site is 19,749 square feet and is located along the southern portion of West 29th Street between 10th and 11th Avenues. The Site is bounded by West 29th Street and Block 700 Lots 16, 22, 23, and 24 (under-development parking facility, art gallery, mixed-use multi-story commercial and residential building, and a storage facility, respectively) to the north, Block 700 Lot 9 (vacant land) to the south, Block 700 Lot 45 (auto repair garage) to the east, and Block 700 Lot 53 (multi-story religious facility) to the west. Currently the site is occupied by three buildings: a two-story brick building on Lot 47, and one-story buildings on Lots 48 and 49. The buildings were most recently occupied by a catering company and two art galleries, respectively. A Site location map is attached as Figure 1

### 1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of redeveloping the lot with a 11-story mixed use building. Layout of the proposed site development is presented in Figure 2. The current zoning designation is C6-3. The proposed use is consistent with existing zoning for the property.

The proposed development project will consist of demolishing the current buildings and constructing a new mixed-use building. The new building will feature eleven floors and one basement level which will be used for commercial space, storage, utility rooms, and residential

space. The basement will be primarily used for storage and utility rooms. Floor 1 will be used for commercial space and Floors 2 through 11 will be used for residential space. The building will rise approximately 135 feet above current street level. An approximate 15' by 100' parking area will be located on the western portion of the Site.



The top of the basement floor will be approximately 12 to 14 feet below sidewalk level, requiring excavation of the entire footprints of Lots 48 and 49 to approximately 15 feet below grade, with additional for the elevator pit to approximately 19 feet below sidewalk level. Lot 47, the proposed parking area, will be excavated to approximately 2 to 3 feet below sidewalk level in order to achieve Track 1 SCOs for the Site. A total of approximately 9,905 cubic yards (14,856 tons) of soil will be removed.

### **1.3 Description of Surrounding Property**

The Site is currently in a mixed-use neighborhood approximately 1,500 feet east of the Hudson River. The current businesses in the area are various art galleries, a juice company, auto repair shop and a storage facility. A review of the NYCOER Searchable Property Environmental E-Database (SPEED) shows two Petroleum Bulk Storage centers within a half mile radius. In addition, the SPEED database shows numerous sites with known chemical releases.

The surrounding area is primarily characterized by residential and commercial use. The Site is bounded to the west by a four-story mixed use building, which is currently occupied by a church, to the east by a one-story auto repair shop, to the north by a six-story storage center, a three-story building mixed-use building, and four-story mixed use building with art galleries on the first floor of the mixed use building. To the south, there is currently a new building under construction.

## **2.0 SITE HISTORY**

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

The Site was purchased from High Ridge Enterprises Inc. by W29 Highline Owners, LLC. Based on a review of historic Sanborn maps, a lumber yard and residential dwelling occupied the Site in 1911. In 1930, the Site was occupied by commercial structures for Sheffield Farms, Dry Milk Co. an automotive repair shop and a coal yard. The Site was occupied by a motor-freight station until 2002. Most recently, the Site was occupied by three separate businesses. Lot 47 was

occupied by a catering company, Lot 48 building was occupied by an art gallery, and Lot 49 was occupied by an art gallery.

## **2.2 Previous Investigations**



In November 2003, High Ridge Enterprises, Inc. (HREI) contracted Fenley & Nicol (F&N) to close out and submit an underground storage tank (UST) closure report to the NYSDEC for Block 700, Lot 48. Due to petroleum impacts observed by F&N during sample collection, the NYSDEC opened Spill Number 03-07633 in October 2003. A limited subsurface investigation was performed by F&N in 2003 to delineate the extent of the hydrocarbon plume. In September 2004, a Remedial Action Plan was submitted by F&N and approved by the NYSDEC on October 2004. F&N submitted a Quarterly status report to the NYSDEC on February 2009 and June 2011. The NYSDEC issued a closure letter on March 2012. In September 2010, a Phase I Environmental Site Assessment (ESA) was performed by French & Parrello on behalf of the Victor Group for block 700, lots 48 & 49.

French & Parrello Associates completed a Phase I Environmental Assessment in September 2010 for the Commercial Building at 524 West 29<sup>th</sup> Street. The objective of the assessment was to identify recognized environmental conditions (REC) associated with the Site. The assessment included a review of available historic documents and environmental databases, letter requests for Site data from local government agencies, a Site reconnaissance, interviews with persons knowledgeable about environmental conditions on the Site, and evaluation of available data. French & Parrello Associates identified several RECs associated with the Site and recommended proceeding with NYSDEC requirements to collect one confirmatory groundwater sample to close the 2003 remediation case, perform further investigation regarding a closed-in-place 2,000-gallon UST, and assess the presence of asbestos-containing materials and/or lead-based paint on Site.

In March 2012, the NYSDEC submitted a notification to High Ridge Enterprises, Inc. informing the closure of the Spill No. 0307633. The NYSDEC recommended the closure of all monitoring wells associated with the spill.

## **2.3 Site Inspection**

- Prior to the Phase II investigation, Mr. James Bellew performed a document review and site inspection in May 2013. The reconnaissance included a visual inspection of the Site,

the sidewalk immediately in front of the Site and the exterior of the adjacent properties. At the time of the inspection the lot was currently occupied by the former buildings that are to be demolished in the future.

## **2.4 Areas of Concern**



The Areas of Concern (AOC) identified for this Site include:

1. Urban Fill present at the Site from grade to as much as 5 feet below ground surface (bgs)
2. Underground storage tank that was closed-in-place at the 532 W. 29<sup>th</sup> St. building
3. Historical Industrial and Automotive Site use
4. Former spill at the 524 W. 29<sup>th</sup> St. building
5. “E” designation for hazardous materials, air quality and noise

## **3.0 PROJECT MANAGEMENT**

### **3.1 Project Organization**

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is James M. Bellew. The Project Director is John M. Gavras. All fieldwork was performed at the direction of Mr. Bellew and Mr. Gavras.



### **3.2 Health and Safety**

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

### **3.3 Materials Management**

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

## 4.0 REMEDIAL INVESTIGATION ACTIVITIES

GZA performed the following scope of work:



1. Conducted a Site inspection to identify AOCs and physical obstructions (e.g., structures, buildings, etc.);
2. Drilled eight soil borings across the Site, and collected eighteen soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells at the Site and utilized an existing installed well to collect four groundwater samples for chemical analysis to evaluate groundwater quality; and
4. Installed six soil vapor probes at the Site and collected six soil vapor samples for chemical analysis to evaluate soil vapor quality.

### 4.1 Geophysical Investigation

GZA subcontracted Enviroprobe Services Inc. to perform a GPR survey in the 532 building to assess the presence of an underground storage tank. Enviroprobe was able to survey all of the buildings with exception to the 524 building due to the raised wooden floor across the Site building. The results of the GPR survey are illustrated on **Figure 2**.

### 4.2 Borings and Monitoring Wells

#### Drilling and Soil Logging

GZA subcontracted Trinity Environmental Corporation and observed the installation of nine soil borings on May 13, 2013 and May 14, 2013. The boring location plan is illustrated on **Figure 3**. Trinity advanced the soil borings using a Geoprobe<sup>®</sup> equipped with a 2-inch inside diameter Macrocore<sup>®</sup> soil sampling unit with an acetate liner sleeve and collected soil samples continuously to a minimum depth of two feet into the water table. The GZA field scientist screened the soil cores for the presence of total organic vapors using a photoionization detector (PID) equipped with a 10.6 eV lamp, visually observed for staining, and classified using the modified Burmeister soil classification. Visual and olfactory evidence of impacted soil including odor and/or elevated PID readings was observed boring locations SB-1, SB-4 and SB-6. Boring logs are provided in **Appendix B**.

## **Groundwater Monitoring Well Construction**

Temporary 1-inch diameter PVC monitoring wells with 0.010 slotted screen were installed at three of the boring locations set to intersect the water table. Since groundwater was encountered to a depth of approximately 9-10 feet below grade, monitoring wells were installed to a depth of 15 feet bgs or refusal. Monitoring well sample details are shown in Appendix C. Monitor well locations are shown in Figure 3.



## **Survey**

Soil Borings and wells were located to the nearest 0.5 foot with respect to two or more permanent site features.

## **Water Level Measurement**

Approximate water level data is included in Appendix C.

### **4.3 Sample Collection and Chemical Analysis**

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

## **Soil Sampling**

GZA subcontracted Trinity Environmental Corporation and observed the installation of nine soil borings on May 13, 2013 and May 14, 2013. The boring location plan is illustrated on **Figure 3**. Trinity advanced the soil borings using a Geoprobe<sup>®</sup> equipped with a 2-inch inside diameter Macrocore<sup>®</sup> soil sampling unit with an acetate liner sleeve and collected soil samples continuously to a minimum depth of two feet into the water table. The GZA field scientist screened the soil cores for the presence of total organic vapors using a photoionization detector

(PID) equipped with a 10.6 eV lamp, visually observed for staining, and classified using the modified Burmeister soil classification. Visual and olfactory evidence of impacted soil including odor and/or elevated PID readings was observed boring locations SB-1, SB-4 and SB-6. Boring logs are provided in **Appendix B**.



GZA collected one discrete (grab) sample from the 0- to 2-foot interval and the 12- to 14-foot interval for analyses of VOCs, SVOCs, and TAL metals. Three soil borings were additionally analyzed for PCB analysis. Due to access restrictions in the basement of the eastern Site building, GZA collected a grab sample from a small excavation in the sidewalk adjoining the Site to the northeast at a depth of 9-10 feet bgs.

### **Groundwater Sampling**

During the field investigation, groundwater was encountered between nine to ten feet bgs. Three soil-boring locations were converted into temporary well point locations to assess groundwater conditions at the Site. The temporary well points, designated as MW-1 through MW-3, were installed in boring locations SB-1, SB-2, and SB-5. Groundwater samples were collected from each temporary well point and analyzed for VOCs, SVOCs, and TAL metals (total and dissolved). Groundwater collected from MW-3 was additionally analyzed for PCBs. GZA gained access to one preexisting monitoring well (FN-5) located on the sidewalk adjacent to the northeast entrance of the Site, and was analyzed for VOCs, SVOCs, and TAL metals (total and dissolved). Groundwater purged from the well points was visually and olfactory observed for presence of petroleum-like impacts. Purge water was placed in a designated drum on Site and labeled as non-hazardous waste for removal. Sampling logs with information on purging and sampling of groundwater monitor wells are included in **Appendix C**. **Figure 3** shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

### **Soil Vapor Sampling**

GZA observed the installation of six (6) soil vapor-sampling points on May 13, 14, and 15, 2013, installed by Trinity and GZA. The water table was measured at 9-10 feet bgs. Five soil vapor-sampling points (WP-1, WP-2, VP-3, VP-4 and VP-6) were installed using a Geoprobe™ equipped with a 2-inch diameter hammer rod, continuously advanced into the subsurface to depths approximately two feet above the water table (7.5' bgs). Of those five, VP-1 was collected approximately 5-6 feet below grade surface due to future construction consisting of an at grade



parking lot. VP-5 was installed in the 522 West 29<sup>th</sup> Site basement sub-slab using a handheld electric hammer drill with a 3/4-inch diameter, 10-inch drill bit. Poly tubing (1/4-inch) retrofitted with moisture filters were placed in each borehole and backfilled with sand. Bentonite was placed at the top of each soil vapor point to create a seal. Prior to sampling, a helium leak-detection test was performed at each soil vapor sampling location, and no leaks were observed. GZA screened for the presence of total organic vapors within the soil vapor point using a photoionization detector (PID) equipped with a 10.6 eV lamp. One-liter summa canisters collected soil vapor for TO-15 analysis.

### Chemical Analysis

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

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



	<ul style="list-style-type: none"><li>• SVOCs by EPA Method 8270D (rev. 2007);</li><li>• Pesticides by EPA Method 8081B (rev. 2000);</li><li>• PCBs by EPA Method 8082A (rev. 2000);</li></ul> Soil vapor analytical methods: <ul style="list-style-type: none"><li>• VOCs by TO-15 VOC parameters..</li></ul>
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### **Results of Chemical Analyses**

Laboratory data for soil, groundwater and soil vapor are summarized in **Table 1** and **Table 2**, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in **Appendix D**.

## 5.0 ENVIRONMENTAL EVALUATION

### 5.1 Geological and Hydrogeological Conditions

#### Stratigraphy



Based on the geotechnical subsurface exploration activities recently conducted by GZA, the surface cover at the Site generally consists of approximately 5 to 22 inches of concrete. From the ground surface downwards, GZA has interpreted the following Site strata based on the information obtained from the geotechnical soil borings:

Fill: Loose to very dense, white to brown, fine to coarse sand, with some silt and gravel was encountered immediately below the surface cover in all the boreholes. Other anthropogenic materials, such as brick, ceramic and concrete were observed in the recovered split-barrel samples. The Fill stratum extends to depths ranging from approximately 6 to 13 feet below bgs.

Sand: Loose to dense, gray to reddish brown, fine to coarse Sand, with some silt and gravel was encountered below the Fill stratum in all of the boreholes. The Sand stratum was encountered both above and below the Sand and Silt stratum. The Sand stratum extends to depths ranging approximately 16 to 32 feet bgs, and the thickness of the Sand stratum ranges from approximately 5 to 21 feet.

The bottom of this lower Sand stratum extends to depths ranging from approximately 31 to 33 feet bgs and the thickness ranged from approximately 3 to 5 feet thick.

Sand and Silt: Stiff to hard or loose to very dense, gray to reddish brown Silt, with some fine Sand and Clay and little Gravel, fibrous material and shell fragments was encountered all but one of the geotechnical borings. The Sand and Silt stratum was encountered below the Sand stratum except as noted above. The Sand and Silt stratum extends to a depth ranging from approximately 20 to 30 feet bgs. The Sand and Silt stratum ranged from 4 to 10 feet thick.

Weathered Rock: The Weathered Rock stratum was encountered below the Sand and/or Sand and Silt strata to depths ranging from 29 to 40 feet bgs. This stratum generally consisted of very dense, fine to coarse sand and gravel with some silt and fragments of weathered rock.

Medium Hard Rock: Medium hard rock was encountered and cored in each of the geotechnical test borings. The depth to bedrock ranged from approximately 20 to 40 feet bgs and consisted

primarily of mica schist with pegmatite intrusions. The elevation of the top of bedrock varied from approximately El. -9.1 to -29.4.

### **Hydrogeology**



Groundwater was encountered between 9 and 10 feet bgs as shown in the field logs in Appendix C. Please note that future water table elevations may fluctuate due to changes in temperature, precipitation, seasonal effects, and other factors not prevalent at the time of our exploration. Groundwater flow is estimated to flow from east to west.

### **5.2 SOIL CHEMISTRY**

GZA collected eighteen soil samples for laboratory analyses. Analytical results were compared to the NYSDEC Part 375 Residential Use Soil Cleanup Objectives (SCO). No PCBs were detected from the soil samples collected.

No PCBs were detected from the soil samples collected. No VOCs were detected above their respective Restricted Residential SCOs. Several SVOCs were detected in soil samples from the Site with eight exceeding their respective Restricted Residential SCOs. These compounds include benzo(a)anthracene (max. of 5.4 mg/kg), benzo(a)pyrene (max. of 4.8 mg/kg), benzo(b)fluoranthene (max. of 6 mg/kg), benzo(k)fluoranthene (max. of 2.3 mg/kg), chrysene (max. of 6 mg/kg), dibenzo(a,h)anthracene (max. of 0.78 mg/kg), indeno(1,2,3-cd)pyrene (max. of 3.2 mg/kg) and 2-methylnaphthalene (max. of 23 mg/kg). Metals, including barium (maximum of 360 mg/kg), copper (maximum of 100 mg/kg), iron (maximum of 16000 mg/kg), lead (maximum of 1200 mg/kg), mercury (maximum of 4.4 mg/kg), nickel (maximum of 32 mg/kg) and zinc iron (maximum of 410 mg/kg) exceeded Unrestricted Residential (Track 1) SCOs, and of these barium, iron, lead and mercury also exceeded Restricted Residential (Track 2) SCOs.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 1. Figure 3 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Soil Cleanup Objectives.

### 5.3 Groundwater Chemistry

GZA collected groundwater samples from the temporary well points MW-1, MW-2, MW-3, and permanent groundwater monitoring well FN-5. For the purposes of quality assurance/quality control (QA/QC) a duplicate sample was taken from MW-1 and a field and trip blank were included in the shipment cooler.



Several VOCs were detected above NYSDEC Part 703.5 Groundwater Quality Standards (GQS) and included 1,1-dichloroethene (max. of 12 ug/l), cis-1,2-dichloroethene (max. of 160 ug/l), benzene (max. of 12 ug/l), n-butylbenzene (max. of 11ug/l), sec-butylbenzene (max. of 12 ug/l), isopropylbenzene (max. of 12 ug/l), naphthalene (max. of 35 ug/l), and n-propylbenzene (max. of 37 ug/l). Three SVOCs including acenaphthene (max. of 20 ug/l), naphthalene (max. of 24 ug/l) and benzo(a)pyrene (max. of 0.11 ug/l) were detected above their respective GQS. Four metals including iron, magnesium, manganese and sodium were detected in groundwater above their respective GQS. No PCBs were detected in any of the collected groundwater samples.

It is our opinion that the data collected during the RI are sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary of the data for chemical analysis performed on groundwater samples is included in **Table 2**. Exceedences of applicable groundwater standards are highlighted. **Figure 3** illustrates the concentration of individual constituents in the groundwater that exceeded the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

### 5.4 Soil Vapor Chemistry

During GZA's subsurface investigation, six soil vapor samples were collected for laboratory analyses. Thirty-three compounds were detected during the survey. Moderate to high concentrations of petroleum and chlorinated VOCs were observed in each vapor sampling point. Values for volatile organics were similar for SV-1 through SV-4 and SV-6. SV-5 contained higher levels of VOCs than the other locations.

Tetrachloroethene (PCE) was identified in all samples at a maximum of 288  $\mu\text{g}/\text{m}^3$ .

Trichloroethene (TCE) was identified at a maximum of 228  $\mu\text{g}/\text{m}^3$ . 1,1,1-Trichloroethane (TCA) was detected in one sample at 231  $\mu\text{g}/\text{m}^3$ . These results for PCE, TCE and TCA are above the monitoring level ranges of the State DOH soil vapor guidance matrix and indicate that remedial action to address soil vapor is warranted. Soil vapor point near the old spill location indicated

highest petroleum related VOCs. These VOCs included ethanol (999  $\mu\text{g}/\text{m}^3$ ), acetone (504  $\mu\text{g}/\text{m}^3$ ), n-hexane (7,820  $\mu\text{g}/\text{m}^3$ ), cyclohexane (4,200  $\text{g}/\text{m}^3$ ), trimethylpentane (54,600  $\mu\text{g}/\text{m}^3$ ) and ethylbenzene (11,100  $\mu\text{g}/\text{m}^3$ ).



It is our opinion that the data collected during the RI are sufficient to delineate the distribution of contaminants in the soil vapor at the Site. A summary of the data for chemical analyses performed on soil vapor samples is included in **Table 3**. **Figure 3** illustrates the location of the soil vapor samples with their detected concentrations.

### **5.5 Prior Activity**

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

### **5.6 Impediments to Remedial Action**

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



## **TABLES**



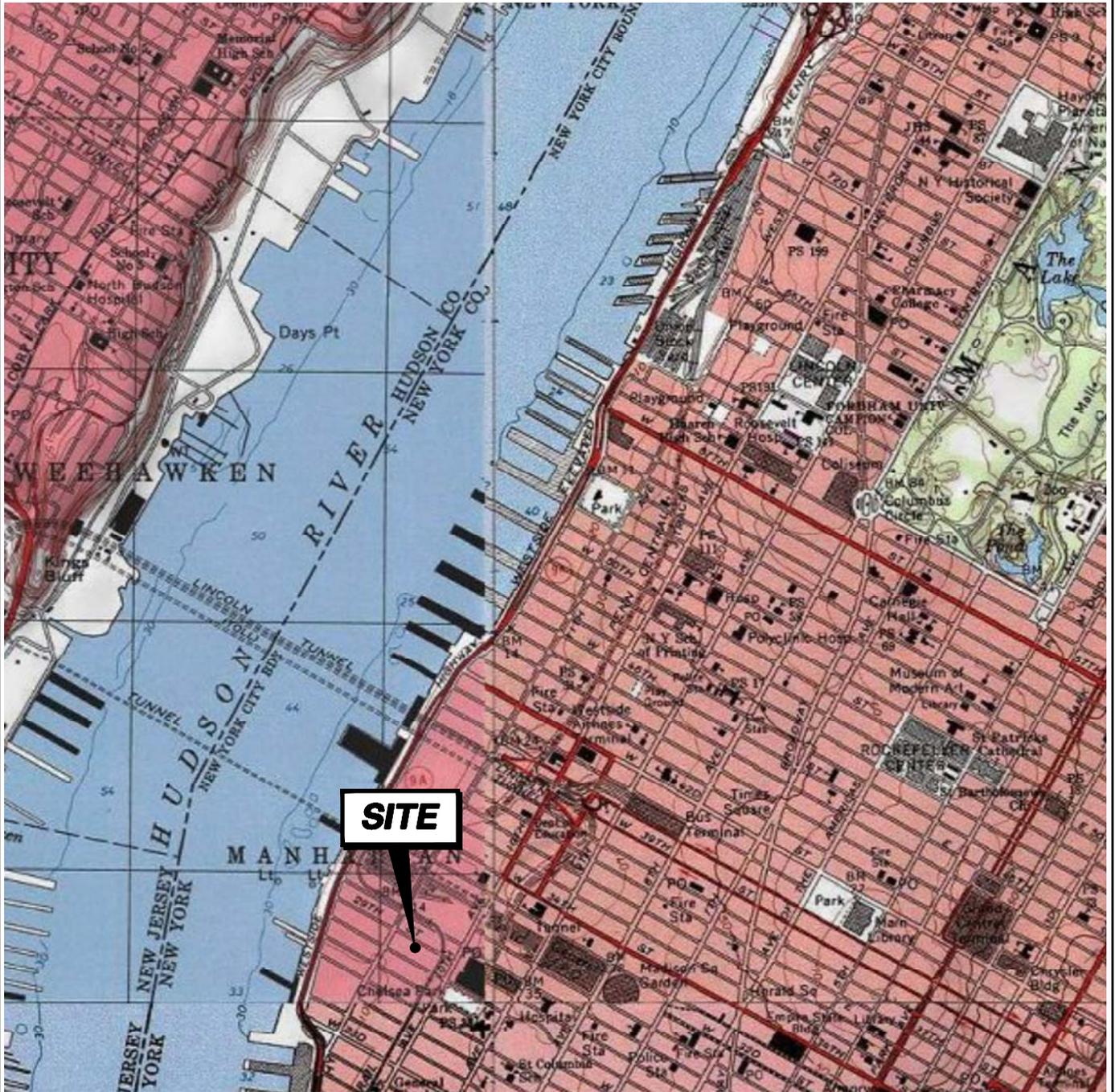


Table 3 - Summary of Soil Vapor Analytical Results  
 522-532 Wes 29th Street  
 New York, New York  
 Phase II Site Investigation Report

LOCATION	SV-6		SV-4		SV-2		SV-3		SV-1		SV-5											
													5/13/2013		5/13/2013		5/13/2013		5/14/2013		5/15/2013	
													L1308532-01		L1308532-02		L1308532-03		L1308532-04		L1308604-01	
SAMPLING DATE	LAB SAMPLE ID	CasNum	Units	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual											
Volatiles Organics in Air - Mansfield Lab																						
Propylene	115-07-1	ug/m3	8.95		1.88	U	15		23.9		5.78	182	U									
Dichlorodifluoromethane	75-71-8	ug/m3	2.96		2.78		3.02		2.7		2.89	210	U									
Chloromethane	74-87-3	ug/m3	0.921	U	0.9	U	1.32		0.915	U	0.882	U	87.6	U								
Freon-114	76-14-2	ug/m3	3.12	U	3.05	U	3.08	U	3.1	U	2.98	U	296	U								
Vinyl chloride	75-01-4	ug/m3	1.14	U	1.11	U	1.12	U	1.57		1.09	U	108	U								
1,3-Butadiene	106-99-0	ug/m3	1.11		0.965	U	2.52		1.52		1.43		93.8	U								
Bromomethane	74-83-9	ug/m3	1.73	U	1.69	U	1.71	U	1.72	U	1.66	U	165	U								
Chloroethane	75-00-3	ug/m3	1.18	U	1.15	U	1.16	U	1.17	U	1.13	U	112	U								
Ethanol	64-17-5	ug/m3	12.7		10.3	U	15.9		10.4	U	10.1	U	999	U								
Vinyl bromide	593-60-2	ug/m3	1.95	U	1.91	U	1.92	U	1.94	U	1.87	U	185	U								
Acetone	67-64-1	ug/m3	141		44.7		224		111		62		504	U								
Trichlorofluoromethane	75-69-4	ug/m3	2.51	U	2.45	U	2.47	U	2.49	U	2.4	U	238	U								
Isopropanol	67-63-0	ug/m3	2.8		2.68	U	3.69		2.73	U	2.63	U	261	U								
1,1-Dichloroethene	75-35-4	ug/m3	1.77	U	1.73	U	1.74	U	1.76	U	1.69	U	168	U								
Methylene chloride	75-09-2	ug/m3	8.82		7.57	U	7.64	U	7.71	U	9.94		736	U								
3-Chloropropene	107-05-1	ug/m3	1.4	U	1.36	U	1.38	U	1.39	U	1.34	U	133	U								
Carbon disulfide	75-15-0	ug/m3	4.8		3.89		4.86		15.9		15.2		132	U								
Freon-113	76-13-1	ug/m3	3.42	U	3.34	U	3.37	U	3.4	U	3.27	U	325	U								
trans-1,2-Dichloroethene	156-60-5	ug/m3	1.77	U	1.73	U	1.74	U	1.76	U	1.69	U	168	U								
1,1-Dichloroethane	75-34-3	ug/m3	1.81	U	1.76	U	1.78	U	1.79	U	1.73	U	172	U								
Methyl tert butyl ether	1634-04-4	ug/m3	1.61	U	1.57	U	81.5		3.32		1.54	U	153	U								
Vinyl acetate	108-05-4	ug/m3	1.57	U	1.54	U	1.55	U	1.56	U	1.5	U	149	U								
2-Butanone	78-93-3	ug/m3	43.9		12		57.8		35.1		5.19		125	U								
cis-1,2-Dichloroethene	156-59-2	ug/m3	3.02		1.73	U	1.74	U	1.76	U	1.69	U	168	U								
Ethyl Acetate	141-78-6	ug/m3	4.04	U	3.93	U	3.96	U	4	U	3.86	U	382	U								
Chloroform	67-66-3	ug/m3	18.9		54.7		2.15	U	81.1		11.4		207	U								
Tetrahydrofuran	109-99-9	ug/m3	1.32	U	1.29	U	1.3	U	1.31	U	1.26	U	125	U								
1,2-Dichloroethane	107-06-2	ug/m3	1.81	U	1.76	U	1.78	U	1.79	U	1.73	U	172	U								
n-Hexane	110-54-3	ug/m3	18.1		7.05		18.1		31.3		10.7		7820	U								
1,1,1-Trichloroethane	71-55-6	ug/m3	10		2.38	U	12.9		2.42	U	2.33	U	231	U								
Benzene	71-43-2	ug/m3	11		4.34		14.2		8.98		8.15		680	U								
Carbon tetrachloride	56-23-5	ug/m3	2.81	U	2.74	U	2.77	U	2.79	U	2.69	U	267	U								
Cyclohexane	110-82-7	ug/m3	6.4		1.5	U	4.16		6.06		8.64		4200	U								
1,2-Dichloropropane	78-87-5	ug/m3	2.06	U	2.02	U	2.03	U	2.05	U	1.97	U	196	U								
Bromodichloromethane	75-27-4	ug/m3	2.99	U	4.64		2.95	U	6		2.86	U	284	U								
1,4-Dioxane	123-91-1	ug/m3	1.61	U	1.57	U	1.59	U	1.6	U	1.54	U	153	U								
Trichloroethene	79-01-6	ug/m3	5.37		2.34	U	2.36	U	2.38	U	2.29	U	228	U								
2,2,4-Trimethylpentane	540-84-1	ug/m3	2.08	U	2.04	U	2.06	U	79.9		2.23		54600	U								
Heptane	142-82-5	ug/m3	45.9		9.55		20.2		22.6		13.9		8110	U								
cis-1,3-Dichloropropene	10061-01-5	ug/m3	2.02	U	1.98	U	2	U	2.01	U	1.94	U	192	U								
4-Methyl-2-pentanone	108-10-1	ug/m3	1.83	U	1.79	U	6.88		5.45		1.77		174	U								
trans-1,3-Dichloropropene	10061-02-6	ug/m3	2.02	U	1.98	U	2	U	2.01	U	1.94	U	192	U								
1,1,2-Trichloroethane	79-00-5	ug/m3	2.43	U	2.38	U	2.4	U	2.42	U	2.33	U	231	U								
Toluene	108-88-3	ug/m3	113		136		154		79.9		245		245	U								
2-Hexanone	591-78-6	ug/m3	1.83	U	1.79	U	4.88		1.82	U	1.75	U	174	U								
Dibromochloromethane	124-48-1	ug/m3	3.8	U	3.71	U	3.75	U	3.77	U	3.64	U	361	U								
1,2-Dibromoethane	106-93-4	ug/m3	3.43	U	3.35	U	3.38	U	3.4	U	3.28	U	326	U								
Tetrachloroethene	127-18-4	ug/m3	7.46		2.96	U	10.2		3	U	2.9	U	288	U								
Chlorobenzene	108-90-7	ug/m3	2.05	U	2.01	U	2.03	U	2.04	U	1.97	U	195	U								
Ethylbenzene	100-41-4	ug/m3	53		28.4		57.3		35		54.7		11100	U								
p/m-Xylene	179601-23-1	ug/m3	241		132		259		159		228		1030	U								
Bromoform	75-25-2	ug/m3	4.61	U	4.51	U	4.55	U	4.58	U	4.41	U	438	U								
Styrene	100-42-5	ug/m3	2.56		1.86	U	2.91		1.92		2.48		181	U								
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	3.06	U	2.99	U	3.02	U	3.04	U	2.93	U	291	U								
o-Xylene	95-47-6	ug/m3	92.5		52.6		95.6		59.1		84.7		315	U								
4-Ethyltoluene	622-96-8	ug/m3	45.8		26.4		47.8		28.8		36.9		767	U								
1,3,5-Trimethylbenzene	108-67-8	ug/m3	43.7		21.6		37.4		24		31.4		208	U								
1,2,4-Trimethylbenzene	95-63-6	ug/m3	151		92.9		149		96.4		125		208	U								
Benzyl chloride	100-44-7	ug/m3	2.31	U	2.26	U	2.28	U	2.29	U	2.21	U	220	U								
1,3-Dichlorobenzene	541-73-1	ug/m3	2.68	U	2.62	U	2.65	U	2.66	U	2.57	U	255	U								
1,4-Dichlorobenzene	106-46-7	ug/m3	2.68	U	2.62	U	2.65	U	2.66	U	2.57	U	255	U								
1,2-Dichlorobenzene	95-50-1	ug/m3	2.68	U	2.62	U	2.65	U	2.66	U	2.57	U	255	U								
1,2,4-Trichlorobenzene	120-82-1	ug/m3	3.31	U	3.24	U	3.27	U	3.29	U	3.17	U	315	U								
Hexachlorobutadiene	87-68-3	ug/m3	4.76	U	4.65	U	4.69	U	4.73	U	4.55	U	452	U								



## **FIGURES**

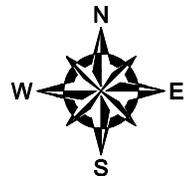


NEW YORK



QUADRANGLE LOCATION

**SOURCE:**  
 USGS TOPOGRAPHIC MAPS WEEHAWKEN, NJ-NY (1981) &  
 CENTRAL PARK, NY-NJ (1979). CONTOUR INTERVAL 10 FT.,  
 ORIGINAL SCALE 1:24,000 (1"=2,000 FT.).



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522-532 WEST 29TH STREET  
 NEW YORK, NEW YORK

PREPARED BY:



PREPARED FOR:

FOUNDATIONS GROUP

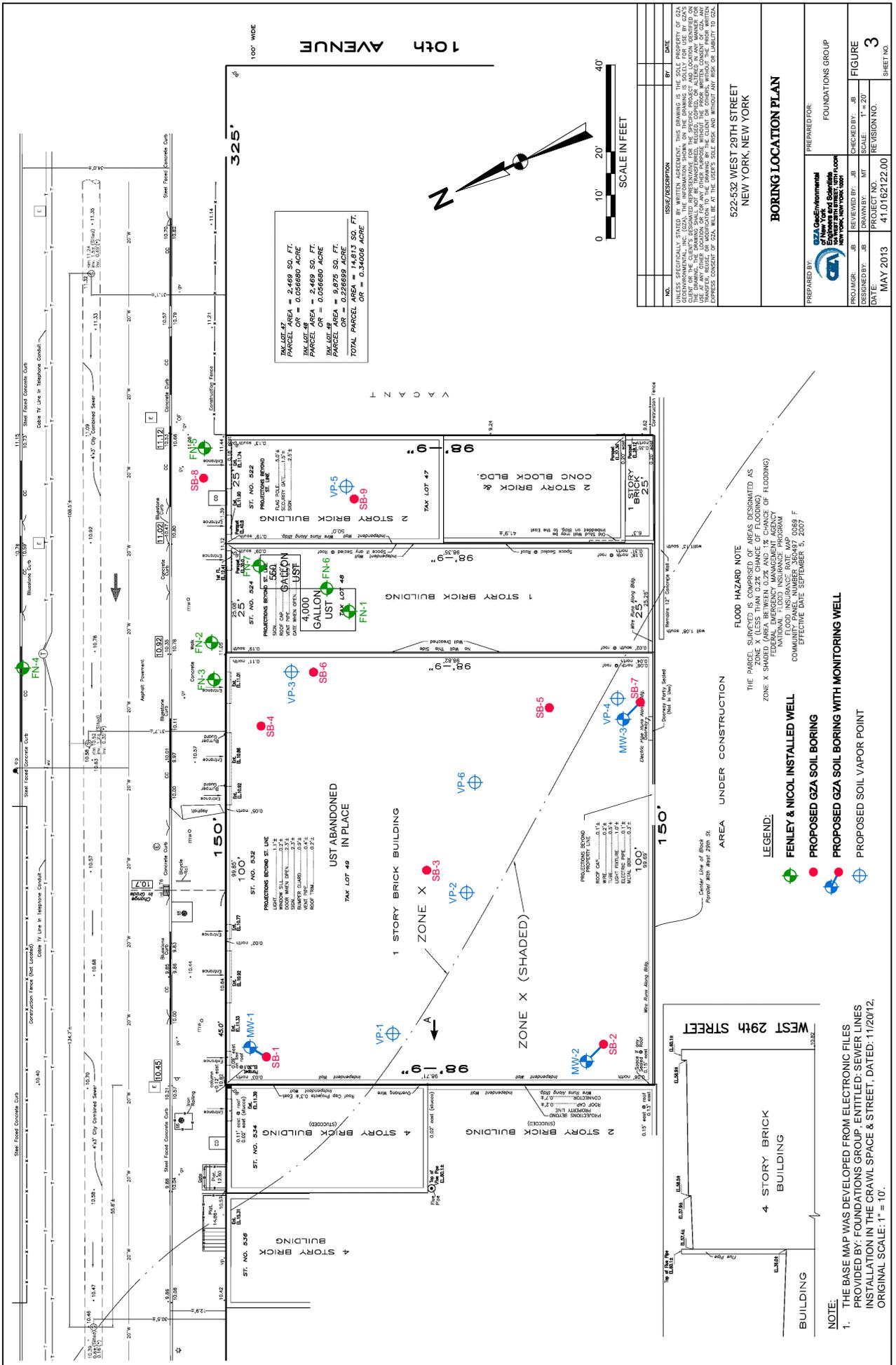
**SITE LOCATION PLAN**

PROJ MGR:	JB	REVIEWED BY:	JB
DESIGNED BY:	JB	DRAWN BY:	MT
DATE:	MAY 2013	PROJECT NO.:	41.0162122.00

CHECKED BY:	JB
SCALE:	1" = 2000'
REVISION NO.:	

FIGURE  
**1**  
 SHEET NO.





MAX LOT #7 AREA = 2,469 SQ. FT.  
 PARCEL #6 AREA = 0.056680 ACRE  
 MAX LOT #8 AREA = 2,469 SQ. FT.  
 PARCEL #9 AREA = 0.056680 ACRE  
 MAX LOT #9 AREA = 9,878 SQ. FT.  
 PARCEL #10 AREA = 0.228689 ACRE  
 TOTAL PARCEL AREA = 14,813 SQ. FT.  
 OR = 0.340066 ACRE



NO.	ISSUE/DESCRIPTION	BY	DATE

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PREPARED BY:		FOUNDATIONS GROUP	
PROJECT NO.:	522-532 WEST 29TH STREET NEW YORK, NEW YORK	CHECKED BY:	JB
DESIGNED BY:	JB	SCALE:	1" = 20'
DATE:	MAY 2013	PROJECT NO.:	41-10162122-00
		REVISION NO.:	3
		SHEET NO.:	

**FLOOD HAZARD NOTE**

THE PARCEL SHOWN IS IN A FLOOD HAZARD AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) AND IS CLASSIFIED AS FLOOD HAZARD ZONE X (SHADED) (AREA BETWEEN 0.2% AND 1% CHANCE OF FLOODING). THE PARCEL IS IN A FLOOD HAZARD AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) AND IS CLASSIFIED AS FLOOD HAZARD ZONE X (SHADED) (AREA BETWEEN 0.2% AND 1% CHANCE OF FLOODING). THE PARCEL IS IN A FLOOD HAZARD AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) AND IS CLASSIFIED AS FLOOD HAZARD ZONE X (SHADED) (AREA BETWEEN 0.2% AND 1% CHANCE OF FLOODING).

- LEGEND:**
- FENLEY & NICOL INSTALLED WELL
  - PROPOSED GZA SOIL BORING
  - ⊕ PROPOSED GZA SOIL BORING WITH MONITORING WELL
  - ⊕ PROPOSED SOIL VAPOR POINT

**NOTE:**

1. THE BASE MAP WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY: FOUNDATIONS GROUP, ENTITLED: SEWER LINES INSTALLATION IN THE CRAWL SPACE & STREET, DATED: 11/20/12, ORIGINAL SCALE: 1" = 10'.



**APPENDIX A**  
**LIMITATIONS**



## **GEOHYDROLOGICAL LIMITATIONS**

### Use of Report

1. GZA GeoEnvironmental of New York. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

### Standard of Care

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

### Subsurface Conditions

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs.

6. Water level readings have been made in test holes (as described in the Report) and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

#### Compliance with Codes and Regulations

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

#### Screening and Analytical Testing

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

#### Interpretation of Data

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

#### Additional Information

12. In the event that the Client or others authorized to use this report obtain information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

#### Additional Services

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.



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

**TEST BORING LOG**



**GZA**  
**GeoEnvironmental, Inc**  
*Engineers and Scientists*

522-532 West 29th Street

**EXPLORATION NO.:** SB-1  
**SHEET:** 1 of 1  
**PROJECT NO:** 41.0162122.00  
**REVIEWED BY:**

**Logged By:**  
**Drilling Co.:**  
**Foreman:**

**Type of Rig:**  
**Rig Model:**  
**Drilling Method:**

**Boring Location:** See Plan  
**Ground Surface Elev. (ft.):**  
**Final Boring Depth (ft.):** 15  
**Date Start - Finish:** 5/14/2013 - 5/14/2013

**H. Datum:**  
**V. Datum:**

**Hammer Type:** Donut  
**Hammer Weight (lb.):** 140  
**Hammer Fall (in.):** 30  
**Auger or Casing O.D./I.D Dia (in.):**

**Sampler Type:** SS  
**Sampler O.D. (in.):** 2.0  
**Sampler Length (in.):** 24  
**Rock Core Size:**

**Groundwater Depth (ft.)**

Date	Time	Water Depth	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample				Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		No.	Depth (ft.)	Pen. (in)	Rec. (in)								
5		S-1	0-5	60	15			S-1 : 0-3": Light gray CONCRETE, dry. 3-15": Black-brown, coarse FILL with brick and concrete fragments, dry.	1	0.0	0.25	CONCRETE	
										0.0			
										0.0		FILL	
										0.0			
10		S-2	5-10	60	29		S-2 : 0-16": Black-brown, coarse FILL with brick and concrete fragments, dry. 16-29": Black-brown, medium to coarse SAND with granules, moist. Petroleum-like odor and minor staining.	2	4.0	6			
									15.9		MEDIUM TO COARSE SAND (IMPACTS)		
15		S-3	10-15	60	26		S-3 : 0-12": Draw-down of Fill. 12-26": Brown-red, medium to coarse SAND, some granules/Fill, moist and wet at bottom, minor Petroleum odor and staining.	3	130	10			
									2.7				
									11.2		BROWN/RED MEDIUM TO COARSE SAND		
									60.5				
								4	61.7				
									76.7	15			
							End of exploration at 15 feet.						

**REMARKS**

1 - 1250-Collect SB-1 (0-2) for VOC, SVOC, Metals analysis.  
 2 - 1245-Collect SB-1 (9-10) for VOC, SVOC, Metals analysis.  
 3 - 1247-COlect SB-1 (12-14) for VOC, SVOC, Metals analysis.  
 4 - MW-1 installed to 14.5' bgs. Screen=14.5 -9.5 feet bgs.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

**Exploration No.:**  
**SB-1**







**TEST BORING LOG**



**GZA**  
**GeoEnvironmental, Inc**  
*Engineers and Scientists*

522-532 West 29th Street

**EXPLORATION NO.:** SB-5  
**SHEET:** 1 of 1  
**PROJECT NO:** 41.0162122.00  
**REVIEWED BY:**

**Logged By:**  
**Drilling Co.:**  
**Foreman:**

**Type of Rig:**  
**Rig Model:**  
**Drilling Method:**

**Boring Location:** See Plan  
**Ground Surface Elev. (ft.):**  
**Final Boring Depth (ft.):** 15  
**Date Start - Finish:** 5/13/2013 - 5/13/2013

**H. Datum:**  
**V. Datum:**

**Hammer Type:** Donut  
**Hammer Weight (lb.):** 140  
**Hammer Fall (in.):** 30  
**Auger or Casing O.D./I.D Dia (in.):**

**Sampler Type:** SS  
**Sampler O.D. (in.):** 2.0  
**Sampler Length (in.):** 24  
**Rock Core Size:**

**Groundwater Depth (ft.)**

Date	Time	Water Depth	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample				Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)		
		No.	Depth (ft.)	Pen. (in)	Rec. (in)										
5		S-1	0-5	60	18			S-1 : 0-12": Gray CONCRETE, dry. 12-18": Red-brown BRICK, dry.	1	0.0	1.5	CONCRETE			
		S-2	5-10	60	35			S-2 : 0-11": Red-brown BRICK fragments with some medium to coarse Sand, dry. 11-35": Reddish brown, Silty fine SAND, wet at approximately 7.5 feet bgs.					0.0	6	BRICK & FILL
		S-3	10-15	60	44			S-3 : 0-12": Reddish brown, Silty fine SAND, wet at approximately 7.5 feet bgs. 12-44": Light brown, fine to medium SAND, some Silt fines, trace rounded pebbles, saturated at 12.5 feet bgs.							
15							End of exploration at 15 feet.		0.0	15					
20															
25															
30															

**REMARKS**  
 1 - 10:50- SB-5 (0-2') Sample collected for VOC, SVOC, Metals and PCB analysis.  
 2 - 11:00- SB-5 (12-14') Sample collected for VOC, SVOC, Metals and PCB analysis.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

**Exploration No.:**  
**SB-5**

GZA TEMPLATE TEST BORING: 5/29/2013: 2:00:49 PM

**TEST BORING LOG**



**GZA**  
**GeoEnvironmental, Inc**  
*Engineers and Scientists*

522-532 West 29th Street

**EXPLORATION NO.:** SB-6  
**SHEET:** 1 of 1  
**PROJECT NO:** 41.0162122.00  
**REVIEWED BY:**

**Logged By:**  
**Drilling Co.:**  
**Foreman:**

**Type of Rig:**  
**Rig Model:**  
**Drilling Method:**

**Boring Location:** See Plan  
**Ground Surface Elev. (ft.):**  
**Final Boring Depth (ft.):** 15  
**Date Start - Finish:** 5/15/2013 - 5/15/2013

**H. Datum:**  
**V. Datum:**

**Hammer Type:** Donut  
**Hammer Weight (lb.):** 140  
**Hammer Fall (in.):** 30  
**Auger or Casing O.D./I.D Dia (in.):**

**Sampler Type:** SS  
**Sampler O.D. (in.):** 2.0  
**Sampler Length (in.):** 24  
**Rock Core Size:**

**Groundwater Depth (ft.)**

Date	Time	Water Depth	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample					SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)			
		No.	Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)										
5		S-1	0-5	60	17			S-1 : 1-4": Gray CONCRETE, dry. 4-17": Brown-red BRICK and Sandy Fill, dry.	1		0.3	CONCRETE				
10		S-2	5-10	60	43			S-2 : 0-12": Gray CONCRETE draw-down, dry. 12-34": Brown-orange Sandy SILT, dry-moist, traces of pebbles. 34-43": Brown Clayey SILT, very firm, dry.	2		5	FILL & BRICK				
15		S-3	10-15	60	45			S-3 : 0-28": Gray CONCRETE draw-down, dry. 28-32.5": Brown Sandy FILL with brick fragments, wet. 32.5-36": Black, fine to medium SAND, faint petroleum odor, wet. 36-45": Dark brown, fine SAND, some Silt.	3		7.5	SANDY SILT				
											10	CLAYEY SILT				
											15	FINE SAND				
							End of exploration at 15 feet.									

**REMARKS**  
 1 - 15:55- SB-6 (0-2') Sample collected for VOC, SVOC and Metals analysis.  
 2 - SV-3 installed to depth of 5 feet bgs.  
 3 - 16:00- SB-6 (12-14') Sample collected for VOC, SVOC and Metals analysis.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

**Exploration No.:**  
**SB-6**

GZA TEMPLATE TEST BORING: 5/29/2013, 2:00:50 PM





**APPENDIX C**  
**GROUNDWATER FIELD LOGS**

WELL ID: MW-1

**GZA GEOENVIRONMENTAL, INC.  
WELL PURGE DATA SHEET**

CLIENT: \_\_\_\_\_  
 SITE: B22-B23 W 29<sup>th</sup> St, NYC  
 WELL ID: MW-1

PROJECT NO: 41.0162122  
 DATE: 5/22/13  
 SAMPLER(S): Emily Sneed

**COLUMN OF WATER IN WELL:**

= Depth to Bottom (ft) - Static Water Level (ft)  
 = 14.3 - 10.3  
 Water Column (T) = 4.0 (ft)

**GALLONS OF WATER PER WELL VOLUME:**

Well Volume = Water Column (T) (ft) x Multiplier  
 = 4 x 0.163  
 Well Volume (V) = 0.65 (gallons)

Well Diameter	Multiplier
2	0.163
4	0.653
6	1.469

*Multiplier = 0.163 x well radius<sup>2</sup>*

**PURGING:**

Water Level at Purge Start = 10.3 (ft)  
 Time Purging Started = 13:30  
 Time Purging Ended = ~~14:30~~ 14:10  
 Water Level at End of Purging = 11.0 (ft)  
 Water Level at Time of Sampling = 11.0 (ft)  
 Time of Sampling = 14:15

**TOTAL VOLUME PURGED:**

Design = 0.65 (gallons)  
 Actual = 1.3 (gallons)

PURGE RATE: \_\_\_\_\_ (gal/min)

**PURGE METHOD:**

Suction Pump Geo Pump  
 Submersible Pump  
 Bailer  
 Other \_\_\_\_\_

**WATER QUALITY:**

TIME	Well Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity ( $\mu$ mhos/cm)	Temperature ( $^{\circ}$ C or $^{\circ}$ F)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Observations (Color, odor, sheen, etc.)
13:30	0.0	10.3						
1345	0.15	10.7	7.64	2.930	15.12	35.9	1902.9	turbid
1350	0.45	10.85	7.47	2.983	14.95	35.9	1337.5	turbid
1355	0.6	10.85	7.35	3.061	14.9	35.9	545.3	sl. turbid
1400	0.75	10.9	7.27	3.110	14.88	35.9	299.1	sl. turbid
1405	1.1	11.0	7.21	3.137	14.86	34.9	241.2	sl. turbid
1410	1.3	11.0	7.20	3.151	14.90	33.9	246.3	sl. turbid

NOTES AND OBSERVATIONS: Collect DUP in MW-1, same parameters

WELL ID: MW-2

**GZA GEOENVIRONMENTAL, INC.  
WELL PURGE DATA SHEET**

CLIENT: \_\_\_\_\_  
 SITE: 322-332 W 29<sup>th</sup> St, NYC  
 WELL ID: MW-2

PROJECT NO: 41.0162122.00  
 DATE: 5/15/13  
 SAMPLER(S): Emily Sneed

**COLUMN OF WATER IN WELL:**

= Depth to Bottom (ft) - Static Water Level (ft)  
 = 17.25 - 10.3  
 Water Column (T) = 6.95 (ft)

**GALLONS OF WATER PER WELL VOLUME:**

Well Volume = Water Column (T) (ft) x Multiplier  
 = 6.95 x 0.163  
 Well Volume (V) = 1.132 (gallons)

Well Diameter	Multiplier
2 (")	0.163
4	0.653
6	1.469

*Multiplier = 0.163 x well radius<sup>2</sup>*

**PURGING:**

Water Level at Purge Start = 10.3 (ft)  
 Time Purging Started = 11:05  
 Time Purging Ended = 13:00  
 Water Level at End of Purging = \_\_\_\_\_ (ft)  
 Water Level at Time of Sampling = ~~13:10~~ \_\_\_\_\_ (ft)  
 Time of Sampling = 13:10

**TOTAL VOLUME PURGED:**

Design = 1.132 (gallons)  
 Actual = 2.75 (gallons)

PURGE RATE: 0.045 (gal/min)

**PURGE METHOD:**

Suction Pump Geopump  
 Submersible Pump  
 Bailer  
 Other \_\_\_\_\_

**WATER QUALITY:**

TIME	Well Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity ( $\mu$ mhos/cm)	Temperature ( $^{\circ}$ C or $^{\circ}$ F)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Observations (Color, odor, sheen, etc.)
11:55	0.0	10.3	n/a	n/a	n/a	n/a		
12:05	0.45	*	9.14	2.956	16.00	36.9	1420	Very turbid
12:10	0.6	*	8.89	2.522	16.05	36.9	1918.3	" "
12:15	0.8	*	8.67	2.214	16.06	36.9	1918.5	" "
12:20	1.0	*	8.51	2.007	16.06	36.9	1918.6	" "
12:25	1.25	*	8.36	1.884	16.07	35.9	1777.6	" "
12:30	1.45	*	8.25	1.795	16.08	35.9	1584.5	" "

NOTES AND OBSERVATIONS: \* 1" diameter PVC temp well, unable to simultaneously check dtw due to diameter restrictions  
See reverse for additional water quality parameter measurements

MW-2

<u>Time</u>	<u>well vol. Purged (gal)</u>	<u>PH</u>	<u>spec. conduct.</u>	<u>Temp. °C</u>	<u>DO</u>	<u>(NTU) Turbidity</u>
12:35	1.0	8.21	1.718	16.08	35.9	1882.6
12:40	1.75	8.14	1.630	16.09	35.9	1740.2
12:45	2.0	8.25	1.578	16.10	35.9	1919.0
12:50	2.24	8.21	1.530	16.10	35.9	1795.8
12:55	2.5	7.95	1.494	16.10	35.9	830.3
13:00	2.65	7.87	1.478	16.10	34.9	573.8

WELL ID: MW-3

**GZA GEOENVIRONMENTAL, INC.**  
**WELL PURGE DATA SHEET**

CLIENT: 41.016222.00  
SITE: 522-532 W 29th St  
WELL ID: MW-3

PROJECT NO: 41.016222.00  
DATE: 5/25/13  
SAMPLER(S): Emily Sneed

**COLUMN OF WATER IN WELL:**

= Depth to Bottom (ft) - Static Water Level (ft)  
= 13.75 - 9.43  
Water Column (T) = 4.32 (ft)

**GALLONS OF WATER PER WELL VOLUME:**

Well Volume = Water Column (T) (ft) x Multiplier  
= 4.32 x 0.163  
Well Volume (V) = 0.70 (gallons)

Well Diameter	Multiplier
<u>2</u>	0.163
4	0.653
6	1.469

Multiplier = 0.163 x well radius<sup>2</sup>

**PURGING:**

Water Level at Purge Start = 9.43 (ft)  
Time Purging Started = 10:05  
Time Purging Ended = 11:15  
Water Level at End of Purging = 10.38 (ft)  
Water Level at Time of Sampling = 10.38 (ft)  
Time of Sampling = 11:20

**TOTAL VOLUME PURGED:**

Design = 0.70 (gallons)  
Actual = 2.8 (gallons)

PURGE RATE: 0.05 (gal/min)

**PURGE METHOD:**

Suction Pump → Geopump  
 Submersible Pump  
 Bailer  
 Other \_\_\_\_\_

WATER QUALITY: VSI 650MDS

TIME	Well Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (μ mhos/cm)	Temperature (°C or °F)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Observations (Color, odor, sheen, etc.)
10:05	0.0	9.43						
10:15	0.3	10.1	7.18	1.656	14.52	44.1	441.2	turbid
10:20	0.5	10.14	7.14	1.650	14.31	43.1	1891.2	turbid
10:25	0.6	10.1	7.14	1.657	14.28	41.0	1478.2	turbid
10:30	0.8	10.2	7.10	1.656	14.27	41.0	244.5	sl. turbid
10:35	1.0	10.18	7.08	1.655	14.26	41.0	115.8	sl. turbid
10:40	1.45	10.2	7.06	1.655	14.25	41.0	40.8	clear

NOTES AND OBSERVATIONS: See Reverse for add'l water quality logs.

~~Collect DUP at MW-3 location EG~~

MW-3

<u>TIME</u>	<u>Well Vol. Purged (gal)</u>	<u>DTW (ft)</u>	<u>PH</u>	<u>Specific Cond.</u>	<u>Temp °C</u>	<u>DO (mg/l)</u>	<u>(NTU) Turbidity</u>
10:45	1.45	10.21	7.04	1.650	14.27	39.0	40.7
10:50	1.65	10.25	7.04	1.646	14.26	39.0	26.2
10:55	1.8	10.3	7.04	1.641	14.27	39.0	31.2
11:00	2.1	10.34	7.04	1.632	14.27	38.0	35.6
11:05	2.25	10.35	7.01	1.626	14.24	39.0	17.6
11:10	2.5	10.35	7.01	1.617	14.25	38.0	27.8
11:15	2.6	10.38	7.0	1.606	14.26	38.0	21.6

WELL ID: FN-X

**GZA GEOENVIRONMENTAL, INC.  
WELL PURGE DATA SHEET**

CLIENT: \_\_\_\_\_  
 SITE: B32-B32 W 29<sup>th</sup> St  
 WELL ID: FN-

PROJECT NO: 41.0162122.00  
 DATE: 5/15/13  
 SAMPLER(S): Emily Sneed

**COLUMN OF WATER IN WELL:**

= Depth to Bottom (ft) - Static Water Level (ft)  
 = 27.3 - 9.35  
 Water Column (T) = \_\_\_\_\_ (ft)

**GALLONS OF WATER PER WELL VOLUME:**

Well Volume = Water Column (T) (ft) x Multiplier  
 = \_\_\_\_\_ x \_\_\_\_\_  
 Well Volume (V) = \_\_\_\_\_ (gallons)

Well Diameter	Multiplier
2	0.163
4	0.653
6	1.469

*Multiplier = 0.163 x well radius<sup>2</sup>*

**PURGING:**

Water Level at Purge Start = 9.35 (ft)  
 Time Purging Started = 15:05  
 Time Purging Ended = 15:25  
 Water Level at End of Purging = 9.41 (ft)  
 Water Level at Time of Sampling = 9.41 (ft)  
 Time of Sampling = 15:20

**TOTAL VOLUME PURGED:**

Design = \_\_\_\_\_ (gallons)  
 Actual = 2.25 gal (gallons)

**PURGE RATE:** \_\_\_\_\_ (gal/min)

**PURGE METHOD:**

- Suction Pump  
 Submersible Pump  
 Bailer  
 Other \_\_\_\_\_

**WATER QUALITY:**

TIME	Well Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (µ mhos/cm)	Temperature (°C or °F)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Observations (Color, odor, sheen, etc.)
15:05	0.0	9.35						
15:10	0.75	9.40	7.00	2.108	14.4	35.9	514.0	cloudy
15:15	1.25	9.41	7.00	2.162	14.41	34.9	19.0	sl. turbid
15:20	1.75	9.41	6.98	2.157	14.34	33.9	59.0	clear
15:25	2.25	9.42	6.98	2.143	14.23	34.9	37.8	clear

NOTES AND OBSERVATIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**APPENDIX D**  
**LABORATORY ANALYTICAL REPORTS**



## ANALYTICAL REPORT

Lab Number:	L1308520
Client:	GZA GeoEnvironmental, Inc. 104 West 29th Street, 10th Floor New York, NY 10001
ATTN:	James Bellew
Phone:	(212) 594-8140
Project Name:	522-532 W 29TH
Project Number:	41.0162122.00
Report Date:	05/20/13

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.

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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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1308520-01	SB-4 (0-2')	NYC	05/13/13 09:30
L1308520-02	SB-4 (12-14')	NYC	05/13/13 09:40
L1308520-03	SB-5 (0-2')	NYC	05/13/13 10:50
L1308520-04	SB-5 (12-14')	NYC	05/13/13 11:00
L1308520-05	SB-7 (0-2')	NYC	05/13/13 13:40
L1308520-06	SB-7 (12-14')	NYC	05/13/13 13:45
L1308520-07	SB-6 (0-2')	NYC	05/13/13 15:55
L1308520-08	SB-6 (12-14')	NYC	05/13/13 16:00

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

### 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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

### 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

L1308520-05 and -07 have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples.

The WG608078-2/-3 LCS/LCSD recoveries, associated with L1308520-01 through -08, are below the acceptance criteria for Benzoic Acid (Both 0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

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: 05/20/13

# ORGANICS

# VOLATILES

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-01  
**Client ID:** SB-4 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 10:01  
**Analyst:** BN  
**Percent Solids:** 92%

**Date Collected:** 05/13/13 09:30  
**Date Received:** 05/13/13  
**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	1.8	0.22	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.38	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	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	0.28	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	0.56	1
Bromoform	ND		ug/kg	4.9	0.51	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.21	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.14	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	6.2	0.97	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.17	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	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: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-01

Date Collected: 05/13/13 09:30

Client ID: SB-4 (0-2')

Date Received: 05/13/13

Sample Location: 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	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.5	0.38	1
Dichlorodifluoromethane	ND		ug/kg	12	0.27	1
Acetone	ND		ug/kg	12	3.8	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	0.59	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	0.23	1
Bromochloromethane	ND		ug/kg	6.2	0.24	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.28	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.2	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.24	1
sec-Butylbenzene	ND		ug/kg	1.2	0.25	1
tert-Butylbenzene	ND		ug/kg	6.2	0.69	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	0.98	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.52	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	0.95	1
Acrylonitrile	ND		ug/kg	12	0.29	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	0.98	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.71	1
1,4-Dioxane	ND		ug/kg	120	22.	1
1,4-Diethylbenzene	ND		ug/kg	4.9	0.20	1
4-Ethyltoluene	ND		ug/kg	4.9	0.14	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-01

Date Collected: 05/13/13 09:30

Client ID: SB-4 (0-2')

Date Received: 05/13/13

Sample Location: 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	4.9	0.16	1
Ethyl ether	ND		ug/kg	6.2	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.55	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	104		70-130

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-02  
**Client ID:** SB-4 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 10:05  
**Analyst:** BN  
**Percent Solids:** 83%

**Date Collected:** 05/13/13 09:40  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	650	130	1
1,1-Dichloroethane	ND		ug/kg	98	12.	1
Chloroform	ND		ug/kg	98	24.	1
Carbon tetrachloride	ND		ug/kg	65	14.	1
1,2-Dichloropropane	ND		ug/kg	230	15.	1
Dibromochloromethane	ND		ug/kg	65	20.	1
1,1,2-Trichloroethane	ND		ug/kg	98	20.	1
Tetrachloroethene	ND		ug/kg	65	9.2	1
Chlorobenzene	ND		ug/kg	65	23.	1
Trichlorofluoromethane	ND		ug/kg	330	7.9	1
1,2-Dichloroethane	ND		ug/kg	65	9.6	1
1,1,1-Trichloroethane	ND		ug/kg	65	7.2	1
Bromodichloromethane	ND		ug/kg	65	15.	1
trans-1,3-Dichloropropene	ND		ug/kg	65	7.9	1
cis-1,3-Dichloropropene	ND		ug/kg	65	8.3	1
1,1-Dichloropropene	ND		ug/kg	330	30.	1
Bromoform	ND		ug/kg	260	27.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	65	11.	1
Benzene	ND		ug/kg	65	7.7	1
Toluene	ND		ug/kg	98	7.3	1
Ethylbenzene	ND		ug/kg	65	9.6	1
Chloromethane	ND		ug/kg	330	51.	1
Bromomethane	ND		ug/kg	130	22.	1
Vinyl chloride	ND		ug/kg	130	9.2	1
Chloroethane	ND		ug/kg	130	21.	1
1,1-Dichloroethene	ND		ug/kg	65	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	98	14.	1
Trichloroethene	ND		ug/kg	65	10.	1
1,2-Dichlorobenzene	ND		ug/kg	330	12.	1
1,3-Dichlorobenzene	ND		ug/kg	330	12.	1
1,4-Dichlorobenzene	ND		ug/kg	330	16.	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-02

Date Collected: 05/13/13 09:40

Client ID: SB-4 (12-14')

Date Received: 05/13/13

Sample Location: 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	130	6.8	1
p/m-Xylene	46	J	ug/kg	130	21.	1
o-Xylene	ND		ug/kg	130	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	65	9.8	1
Dibromomethane	ND		ug/kg	650	11.	1
Styrene	ND		ug/kg	130	20.	1
Dichlorodifluoromethane	ND		ug/kg	650	14.	1
Acetone	ND		ug/kg	650	200	1
Carbon disulfide	ND		ug/kg	650	130	1
2-Butanone	ND		ug/kg	650	23.	1
Vinyl acetate	ND		ug/kg	650	31.	1
4-Methyl-2-pentanone	ND		ug/kg	650	16.	1
1,2,3-Trichloropropane	ND		ug/kg	650	15.	1
2-Hexanone	ND		ug/kg	650	12.	1
Bromochloromethane	ND		ug/kg	330	13.	1
2,2-Dichloropropane	ND		ug/kg	330	15.	1
1,2-Dibromoethane	ND		ug/kg	260	12.	1
1,3-Dichloropropane	ND		ug/kg	330	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	65	21.	1
Bromobenzene	ND		ug/kg	330	14.	1
n-Butylbenzene	210		ug/kg	65	13.	1
sec-Butylbenzene	73		ug/kg	65	13.	1
tert-Butylbenzene	ND		ug/kg	330	37.	1
o-Chlorotoluene	ND		ug/kg	330	10.	1
p-Chlorotoluene	ND		ug/kg	330	10.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	330	52.	1
Hexachlorobutadiene	ND		ug/kg	330	28.	1
Isopropylbenzene	ND		ug/kg	65	11.	1
p-Isopropyltoluene	ND		ug/kg	65	12.	1
Naphthalene	ND		ug/kg	330	50.	1
Acrylonitrile	ND		ug/kg	650	16.	1
n-Propylbenzene	100		ug/kg	65	8.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	330	11.	1
1,2,4-Trichlorobenzene	ND		ug/kg	330	52.	1
1,3,5-Trimethylbenzene	ND		ug/kg	330	9.4	1
1,2,4-Trimethylbenzene	ND		ug/kg	330	37.	1
1,4-Dioxane	ND		ug/kg	6500	1100	1
1,4-Diethylbenzene	180	J	ug/kg	260	10.	1
4-Ethyltoluene	29	J	ug/kg	260	7.6	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-02

Date Collected: 05/13/13 09:40

Client ID: SB-4 (12-14')

Date Received: 05/13/13

Sample Location: 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	650		ug/kg	260	8.5	1
Ethyl ether	ND		ug/kg	330	17.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	29.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-03  
**Client ID:** SB-5 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 10:55  
**Analyst:** BN  
**Percent Solids:** 78%

**Date Collected:** 05/13/13 10:50  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
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	0.49	1
Tetrachloroethene	ND		ug/kg	1.6	0.22	1
Chlorobenzene	ND		ug/kg	1.6	0.56	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	0.37	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
1,1,1,2-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	0.39	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-03

Date Collected: 05/13/13 10:50

Client ID: SB-5 (0-2')

Date Received: 05/13/13

Sample Location: 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	0.52	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	0.50	1
Dichlorodifluoromethane	ND		ug/kg	16	0.35	1
Acetone	ND		ug/kg	16	5.0	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	0.77	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	0.32	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	0.90	1
o-Chlorotoluene	ND		ug/kg	8.0	0.26	1
p-Chlorotoluene	ND		ug/kg	8.0	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	8.0	0.68	1
Isopropylbenzene	ND		ug/kg	1.6	0.27	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.31	1
Naphthalene	ND		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	1.3	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.0	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	8.0	0.92	1
1,4-Dioxane	ND		ug/kg	160	28.	1
1,4-Diethylbenzene	ND		ug/kg	6.4	0.26	1
4-Ethyltoluene	ND		ug/kg	6.4	0.19	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-03

Date Collected: 05/13/13 10:50

Client ID: SB-5 (0-2')

Date Received: 05/13/13

Sample Location: 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	0.72	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	105		70-130

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-04  
**Client ID:** SB-5 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 11:23  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 05/13/13 11:00  
**Date Received:** 05/13/13  
**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	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
1,1,1,2-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: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-04

Date Collected: 05/13/13 11:00

Client ID: SB-5 (12-14')

Date Received: 05/13/13

Sample Location: 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	0.56	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: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-04

Date Collected: 05/13/13 11:00

Client ID: SB-5 (12-14')

Date Received: 05/13/13

Sample Location: 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	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	79		70-130

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-05  
**Client ID:** SB-7 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 11:50  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 05/13/13 13:40  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
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	0.48	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	0.40	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	0.45	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.16	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	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.59	1
Bromoform	ND		ug/kg	5.2	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	0.44	1
Vinyl chloride	ND		ug/kg	2.6	0.18	1
Chloroethane	ND		ug/kg	2.6	0.41	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	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.31	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-05

Date Collected: 05/13/13 13:40

Client ID: SB-7 (0-2')

Date Received: 05/13/13

Sample Location: 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	2.6	0.13	1
p/m-Xylene	ND		ug/kg	2.6	0.42	1
o-Xylene	ND		ug/kg	2.6	0.35	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	0.40	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	0.46	1
Vinyl acetate	ND		ug/kg	13	0.62	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.32	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	5.2	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	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.25	1
Naphthalene	ND		ug/kg	6.4	0.99	1
Acrylonitrile	ND		ug/kg	13	0.31	1
n-Propylbenzene	ND		ug/kg	1.3	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.22	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	0.74	1
1,4-Dioxane	ND		ug/kg	130	22.	1
1,4-Diethylbenzene	ND		ug/kg	5.2	0.20	1
4-Ethyltoluene	ND		ug/kg	5.2	0.15	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-05

Date Collected: 05/13/13 13:40

Client ID: SB-7 (0-2')

Date Received: 05/13/13

Sample Location: 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	5.2	0.17	1
Ethyl ether	ND		ug/kg	6.4	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	101		70-130

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-06  
 Client ID: SB-7 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/15/13 12:18  
 Analyst: BN  
 Percent Solids: 77%

Date Collected: 05/13/13 13:45  
 Date Received: 05/13/13  
 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	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		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	0.13	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	0.46	1
1,1,1,2-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	5.6	0.87	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	0.35	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	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.27	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-06

Date Collected: 05/13/13 13:45

Client ID: SB-7 (12-14')

Date Received: 05/13/13

Sample Location: 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	0.17	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	3.5	1
Carbon disulfide	ND		ug/kg	11	2.2	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	0.27	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	5.6	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	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	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	5.6	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	0.88	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.47	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.6	0.86	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	5.6	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.88	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.64	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.5	0.18	1
4-Ethyltoluene	ND		ug/kg	4.5	0.13	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-06

Date Collected: 05/13/13 13:45

Client ID: SB-7 (12-14')

Date Received: 05/13/13

Sample Location: 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	0.14	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	115		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	102		70-130

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-07  
**Client ID:** SB-6 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 12:45  
**Analyst:** BN  
**Percent Solids:** 90%

**Date Collected:** 05/13/13 15:55  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
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	0.41	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	ND		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	0.25	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	5.6	0.51	1
Bromoform	ND		ug/kg	4.4	0.46	1
1,1,1,2-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	5.6	0.87	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	0.35	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	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.27	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-07

Date Collected: 05/13/13 15:55

Client ID: SB-6 (0-2')

Date Received: 05/13/13

Sample Location: 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	0.17	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	0.40	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	5.6	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.6	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	5.6	0.62	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	0.88	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.47	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.6	0.86	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	5.6	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.88	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	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: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-07

Date Collected: 05/13/13 15:55

Client ID: SB-6 (0-2')

Date Received: 05/13/13

Sample Location: 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	5.6	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	118		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	104		70-130

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-08  
**Client ID:** SB-6 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 13:12  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 05/13/13 16:00  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.6	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.17	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.96	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.22	1
Dibromochloromethane	ND		ug/kg	0.96	0.29	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.96	0.13	1
Chlorobenzene	ND		ug/kg	0.96	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.12	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	0.96	0.10	1
Bromodichloromethane	ND		ug/kg	0.96	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.96	0.12	1
1,1-Dichloropropene	ND		ug/kg	4.8	0.44	1
Bromoform	ND		ug/kg	3.8	0.40	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.96	0.16	1
Benzene	ND		ug/kg	0.96	0.11	1
Toluene	ND		ug/kg	1.4	0.11	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	4.8	0.75	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	0.96	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Trichloroethene	ND		ug/kg	0.96	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.23	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-08

Date Collected: 05/13/13 16:00

Client ID: SB-6 (12-14')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	1.5	J	ug/kg	1.9	0.10	1
p/m-Xylene	ND		ug/kg	1.9	0.31	1
o-Xylene	ND		ug/kg	1.9	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.14	1
Dibromomethane	ND		ug/kg	9.6	0.16	1
Styrene	ND		ug/kg	1.9	0.30	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.21	1
Acetone	ND		ug/kg	9.6	3.0	1
Carbon disulfide	2.0	J	ug/kg	9.6	1.9	1
2-Butanone	ND		ug/kg	9.6	0.34	1
Vinyl acetate	ND		ug/kg	9.6	0.46	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.6	0.21	1
2-Hexanone	ND		ug/kg	9.6	0.18	1
Bromochloromethane	ND		ug/kg	4.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	4.8	0.22	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.8	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.96	0.30	1
Bromobenzene	ND		ug/kg	4.8	0.20	1
n-Butylbenzene	ND		ug/kg	0.96	0.19	1
sec-Butylbenzene	ND		ug/kg	0.96	0.20	1
tert-Butylbenzene	ND		ug/kg	4.8	0.54	1
o-Chlorotoluene	ND		ug/kg	4.8	0.15	1
p-Chlorotoluene	ND		ug/kg	4.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.75	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.40	1
Isopropylbenzene	ND		ug/kg	0.96	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.18	1
Naphthalene	ND		ug/kg	4.8	0.74	1
Acrylonitrile	ND		ug/kg	9.6	0.23	1
n-Propylbenzene	ND		ug/kg	0.96	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.75	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.8	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.8	0.55	1
1,4-Dioxane	ND		ug/kg	96	17.	1
1,4-Diethylbenzene	ND		ug/kg	3.8	0.15	1
4-Ethyltoluene	ND		ug/kg	3.8	0.11	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-08

Date Collected: 05/13/13 16:00

Client ID: SB-6 (12-14')

Date Received: 05/13/13

Sample Location: 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	4.8	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:06  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-08 Batch: WG608397-3					
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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:06  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-08 Batch: WG608397-3					
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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:06  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-08 Batch: WG608397-3					
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: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 05/15/13 09:06  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-08 Batch: WG608397-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	103		70-130

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:09  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG608439-3					
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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:09  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG608439-3					
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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:09  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG608439-3					
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: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 05/15/13 09:09

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
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Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG608439-3					
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Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-08 Batch: WG608397-1 WG608397-2									
Methylene chloride	92		73		70-130		23		30
1,1-Dichloroethane	93		94		70-130		1		30
Chloroform	97		98		70-130		1		30
Carbon tetrachloride	96		95		70-130		1		30
1,2-Dichloropropane	89		91		70-130		2		30
Dibromochloromethane	92		100		70-130		8		30
2-Chloroethylvinyl ether	95		100				5		30
1,1,2-Trichloroethane	97		109		70-130		12		30
Tetrachloroethene	84		85		70-130		1		30
Chlorobenzene	95		97		70-130		2		30
Trichlorofluoromethane	114		111		70-139		3		30
1,2-Dichloroethane	104		107		70-130		3		30
1,1,1-Trichloroethane	96		94		70-130		2		30
Bromodichloromethane	98		101		70-130		3		30
trans-1,3-Dichloropropene	99		107		70-130		8		30
cis-1,3-Dichloropropene	94		96		70-130		2		30
1,1-Dichloropropene	96		93		70-130		3		30
Bromoform	94		97		70-130		3		30
1,1,2,2-Tetrachloroethane	104		110		70-130		6		30
Benzene	92		93		70-130		1		30
Toluene	92		96		70-130		4		30



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-08 Batch: WG608397-1 WG608397-2									
Ethylbenzene	96		98		70-130		2		30
Chloromethane	73		69		52-130		6		30
Bromomethane	117		131		57-147		11		30
Vinyl chloride	101		99		67-130		2		30
Chloroethane	118		118		50-151		0		30
1,1-Dichloroethene	92		67		65-135		31	Q	30
trans-1,2-Dichloroethene	90		70		70-130		25		30
Trichloroethene	93		93		70-130		0		30
1,2-Dichlorobenzene	95		99		70-130		4		30
1,3-Dichlorobenzene	94		98		70-130		4		30
1,4-Dichlorobenzene	96		98		70-130		2		30
Methyl tert butyl ether	93		87		66-130		7		30
p/m-Xylene	95		96		70-130		1		30
o-Xylene	92		97		70-130		5		30
cis-1,2-Dichloroethene	90		90		70-130		0		30
Dibromomethane	97		102		70-130		5		30
Styrene	92		98		70-130		6		30
Dichlorodifluoromethane	94		91		30-146		3		30
Acetone	137		100		54-140		31	Q	30
Carbon disulfide	93		71		59-130		27		30
2-Butanone	104		118		70-130		13		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-08 Batch: WG608397-1 WG608397-2									
Vinyl acetate	96		103		70-130		7		30
4-Methyl-2-pentanone	83		89		70-130		7		30
1,2,3-Trichloropropane	108		116		68-130		7		30
2-Hexanone	96		111		70-130		14		30
Bromochloromethane	88		94		70-130		7		30
2,2-Dichloropropane	96		94		70-130		2		30
1,2-Dibromoethane	92		102		70-130		10		30
1,3-Dichloropropane	98		108		69-130		10		30
1,1,1,2-Tetrachloroethane	93		96		70-130		3		30
Bromobenzene	93		94		70-130		1		30
n-Butylbenzene	105		104		70-130		1		30
sec-Butylbenzene	102		101		70-130		1		30
tert-Butylbenzene	98		98		70-130		0		30
o-Chlorotoluene	104		104		70-130		0		30
p-Chlorotoluene	103		104		70-130		1		30
1,2-Dibromo-3-chloropropane	95		102		68-130		7		30
Hexachlorobutadiene	84		86		67-130		2		30
Isopropylbenzene	90		94		70-130		4		30
p-Isopropyltoluene	95		96		70-130		1		30
Naphthalene	89		96		70-130		8		30
Acrylonitrile	85		90		70-130		6		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-08 Batch: WG608397-1 WG608397-2									
Isopropyl Ether	90		92		66-130		2		30
tert-Butyl Alcohol	80		90		70-130		12		30
n-Propylbenzene	104		103		70-130		1		30
1,2,3-Trichlorobenzene	86		89		70-130		3		30
1,2,4-Trichlorobenzene	86		90		70-130		5		30
1,3,5-Trimethylbenzene	101		102		70-130		1		30
1,2,4-Trimethylbenzene	100		101		70-130		1		30
Methyl Acetate	92		74		51-146		22		30
Ethyl Acetate	82		90		70-130		9		30
Acrolein	68	Q	48	Q	70-130		34	Q	30
Cyclohexane	91		86		59-142		6		30
1,4-Dioxane	100		110		65-136		10		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	105		75		50-139		33	Q	30
1,4-Diethylbenzene	84		85		70-130		1		30
4-Ethyltoluene	88		88		70-130		0		30
1,2,4,5-Tetramethylbenzene	84		86		70-130		2		30
Tetrahydrofuran	67		89		66-130		28		30
Ethyl ether	107		110		67-130		3		30
trans-1,4-Dichloro-2-butene	107		114		70-130		6		30
Methyl cyclohexane	97		93		70-130		4		30
Ethyl-Tert-Butyl-Ether	91		95		70-130		4		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-08 Batch: WG608397-1 WG608397-2									
Tertiary-Amyl Methyl Ether	92		96		70-130		4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	114		116		70-130
Toluene-d8	102		107		70-130
4-Bromofluorobenzene	109		109		70-130
Dibromofluoromethane	104		105		70-130

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG608439-1 WG608439-2									
Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Methylene chloride	98		98		70-130		0		30
1,1-Dichloroethane	103		100		70-130		3		30
Chloroform	104		100		70-130		4		30
Carbon tetrachloride	109		101		70-130		8		30
1,2-Dichloropropane	101		100		70-130		1		30
Dibromochloromethane	94		93		70-130		1		30
2-Chloroethylvinyl ether	101		100		70-130		1		30
1,1,2-Trichloroethane	88		90		70-130		2		30
Tetrachloroethene	106		102		70-130		4		30



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG608439-1 WG608439-2									
Chlorobenzene	100		98		70-130		2		30
Trichlorofluoromethane	101		94		70-139		7		30
1,2-Dichloroethane	93		94		70-130		1		30
1,1,1-Trichloroethane	106		100		70-130		6		30
Bromodichloromethane	101		100		70-130		1		30
trans-1,3-Dichloropropene	92		92		70-130		0		30
cis-1,3-Dichloropropene	98		96		70-130		2		30
1,1-Dichloropropene	106		99		70-130		7		30
Bromoform	80		82		70-130		2		30
1,1,2,2-Tetrachloroethane	78		79		70-130		1		30
Benzene	103		100		70-130		3		30
Toluene	97		93		70-130		4		30
Ethylbenzene	100		96		70-130		4		30
Chloromethane	100		95		52-130		5		30
Bromomethane	88		87		57-147		1		30
Vinyl chloride	99		92		67-130		7		30
Chloroethane	87		83		50-151		5		30
1,1-Dichloroethene	113		105		65-135		7		30
trans-1,2-Dichloroethene	109		105		70-130		4		30
Trichloroethene	103		98		70-130		5		30
1,2-Dichlorobenzene	97		96		70-130		1		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG608439-1 WG608439-2									
1,3-Dichlorobenzene	99		96		70-130		3		30
1,4-Dichlorobenzene	98		97		70-130		1		30
Methyl tert butyl ether	89		90		66-130		1		30
p/m-Xylene	103		99		70-130		4		30
o-Xylene	101		97		70-130		4		30
cis-1,2-Dichloroethene	105		102		70-130		3		30
Dibromomethane	96		98		70-130		2		30
Styrene	98		95		70-130		3		30
Dichlorodifluoromethane	100		94		30-146		6		30
Acetone	99		93		54-140		6		30
Carbon disulfide	99		93		59-130		6		30
2-Butanone	81		79		70-130		3		30
Vinyl acetate	80		80		70-130		0		30
4-Methyl-2-pentanone	68	Q	72		70-130		6		30
1,2,3-Trichloropropane	74		77		68-130		4		30
2-Hexanone	69	Q	68		70-130	Q	1		30
Bromochloromethane	106		107		70-130		1		30
2,2-Dichloropropane	105		99		70-130		6		30
1,2-Dibromoethane	92		93		70-130		1		30
1,3-Dichloropropane	90		90		69-130		0		30
1,1,1,2-Tetrachloroethane	98		96		70-130		2		30



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG608439-1 WG608439-2									
Bromobenzene	96		94		70-130		2		30
n-Butylbenzene	104		98		70-130		6		30
sec-Butylbenzene	103		97		70-130		6		30
tert-Butylbenzene	104		98		70-130		6		30
o-Chlorotoluene	103		99		70-130		4		30
p-Chlorotoluene	97		95		70-130		2		30
1,2-Dibromo-3-chloropropane	78		79		68-130		1		30
Hexachlorobutadiene	116		108		67-130		7		30
Isopropylbenzene	98		93		70-130		5		30
p-Isopropyltoluene	104		98		70-130		6		30
Naphthalene	85		86		70-130		1		30
Acrylonitrile	77		80		70-130		4		30
Isopropyl Ether	94		94		66-130		0		30
tert-Butyl Alcohol	67	Q	72		70-130		7		30
n-Propylbenzene	98		93		70-130		5		30
1,2,3-Trichlorobenzene	99		96		70-130		3		30
1,2,4-Trichlorobenzene	104		100		70-130		4		30
1,3,5-Trimethylbenzene	101		97		70-130		4		30
1,2,4-Trimethylbenzene	101		98		70-130		3		30
Methyl Acetate	74		77		51-146		4		30
Ethyl Acetate	74		77		70-130		4		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG608439-1 WG608439-2									
Acrolein	76		78		70-130		3		30
Cyclohexane	103		96		59-142		7		30
1,4-Dioxane	92		95		65-136		3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	112		103		50-139		8		30
1,4-Diethylbenzene	103		98		70-130		5		30
4-Ethyltoluene	100		96		70-130		4		30
1,2,4,5-Tetramethylbenzene	104		100		70-130		4		30
Tetrahydrofuran	87		90		66-130		3		30
Ethyl ether	88		89		67-130		1		30
trans-1,4-Dichloro-2-butene	68	Q	70		70-130		3		30
Methyl cyclohexane	110		101		70-130		9		30
Ethyl-Tert-Butyl-Ether	93		94		70-130		1		30
Tertiary-Amyl Methyl Ether	92		92		70-130		0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	87		89		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	102		102		70-130



# SEMIVOLATILES

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-01  
**Client ID:** SB-4 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/16/13 22:06  
**Analyst:** RC  
**Percent Solids:** 92%

**Date Collected:** 05/13/13 09:30  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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	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	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: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-01

Date Collected: 05/13/13 09:30

Client ID: SB-4 (0-2')

Date Received: 05/13/13

Sample Location: 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	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	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	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:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-01

Date Collected: 05/13/13 09:30

Client ID: SB-4 (0-2')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	94		0-136
4-Terphenyl-d14	99		18-120

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-02  
 Client ID: SB-4 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 05/16/13 22:32  
 Analyst: RC  
 Percent Solids: 83%

Date Collected: 05/13/13 09:40  
 Date Received: 05/13/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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	62.	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	36.	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: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-02

Date Collected: 05/13/13 09:40

Client ID: SB-4 (12-14')

Date Received: 05/13/13

Sample Location: 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	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	41.	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	52.	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	96	J	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	57.	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:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-02

Date Collected: 05/13/13 09:40

Client ID: SB-4 (12-14')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	98		0-136
4-Terphenyl-d14	79		18-120

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-03  
**Client ID:** SB-5 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/16/13 22:59  
**Analyst:** RC  
**Percent Solids:** 78%

**Date Collected:** 05/13/13 10:50  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	170	44.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	69.	1
Hexachlorobenzene	ND		ug/kg	130	39.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	59.	1
2-Chloronaphthalene	ND		ug/kg	210	69.	1
1,2-Dichlorobenzene	ND		ug/kg	210	69.	1
1,3-Dichlorobenzene	ND		ug/kg	210	67.	1
1,4-Dichlorobenzene	ND		ug/kg	210	64.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	46.	1
2,6-Dinitrotoluene	ND		ug/kg	210	54.	1
Fluoranthene	720		ug/kg	130	39.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	64.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	49.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	74.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	64.	1
Hexachlorobutadiene	ND		ug/kg	210	60.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	140	1
Hexachloroethane	ND		ug/kg	170	38.	1
Isophorone	ND		ug/kg	190	56.	1
Naphthalene	ND		ug/kg	210	70.	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	63.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	210	55.	1
Butyl benzyl phthalate	ND		ug/kg	210	41.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	52.	1
Diethyl phthalate	ND		ug/kg	210	45.	1
Dimethyl phthalate	ND		ug/kg	210	54.	1
Benzo(a)anthracene	360		ug/kg	130	41.	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-03

Date Collected: 05/13/13 10:50

Client ID: SB-5 (0-2')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	320		ug/kg	170	52.	1
Benzo(b)fluoranthene	410		ug/kg	130	43.	1
Benzo(k)fluoranthene	170		ug/kg	130	40.	1
Chrysene	370		ug/kg	130	42.	1
Acenaphthylene	79	J	ug/kg	170	40.	1
Anthracene	82	J	ug/kg	130	35.	1
Benzo(ghi)perylene	180		ug/kg	170	44.	1
Fluorene	ND		ug/kg	210	60.	1
Phenanthrene	290		ug/kg	130	41.	1
Dibenzo(a,h)anthracene	50	J	ug/kg	130	41.	1
Indeno(1,2,3-cd)Pyrene	200		ug/kg	170	47.	1
Pyrene	690		ug/kg	130	41.	1
Biphenyl	ND		ug/kg	480	70.	1
4-Chloroaniline	ND		ug/kg	210	56.	1
2-Nitroaniline	ND		ug/kg	210	60.	1
3-Nitroaniline	ND		ug/kg	210	58.	1
4-Nitroaniline	ND		ug/kg	210	57.	1
Dibenzofuran	ND		ug/kg	210	70.	1
2-Methylnaphthalene	ND		ug/kg	250	68.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	66.	1
Acetophenone	ND		ug/kg	210	66.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
P-Chloro-M-Cresol	ND		ug/kg	210	61.	1
2-Chlorophenol	ND		ug/kg	210	64.	1
2,4-Dichlorophenol	ND		ug/kg	190	68.	1
2,4-Dimethylphenol	ND		ug/kg	210	63.	1
2-Nitrophenol	ND		ug/kg	460	66.	1
4-Nitrophenol	ND		ug/kg	300	68.	1
2,4-Dinitrophenol	ND		ug/kg	1000	290	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	77.	1
Pentachlorophenol	ND		ug/kg	170	45.	1
Phenol	ND		ug/kg	210	62.	1
2-Methylphenol	ND		ug/kg	210	68.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	69.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	68.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	45.	1

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-03

Date Collected: 05/13/13 10:50

Client ID: SB-5 (0-2')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	25		0-136
4-Terphenyl-d14	87		18-120

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-04  
 Client ID: SB-5 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 05/16/13 23:26  
 Analyst: RC  
 Percent Solids: 86%

Date Collected: 05/13/13 11:00  
 Date Received: 05/13/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	120	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	ND		ug/kg	120	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	68.	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	64.	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	38.	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	49.	1
Benzo(a)anthracene	ND		ug/kg	120	38.	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-04

Date Collected: 05/13/13 11:00

Client ID: SB-5 (12-14')

Date Received: 05/13/13

Sample Location: 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	47.	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	150	36.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	ND		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	43.	1
Pyrene	ND		ug/kg	120	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	51.	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	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	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:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-04

Date Collected: 05/13/13 11:00

Client ID: SB-5 (12-14')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	94		0-136
4-Terphenyl-d14	82		18-120

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-05  
 Client ID: SB-7 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 05/16/13 23:52  
 Analyst: RC  
 Percent Solids: 86%

Date Collected: 05/13/13 13:40  
 Date Received: 05/13/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	500		ug/kg	300	78.	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	97.	2
Fluoranthene	12000		ug/kg	230	70.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	380	120	2
4-Bromophenyl phenyl ether	ND		ug/kg	380	87.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	460	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	180	J	ug/kg	380	120	2
Nitrobenzene	ND		ug/kg	340	90.	2
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	300	80.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	380	110	2
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	380	99.	2
Butyl benzyl phthalate	ND		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	5400		ug/kg	230	74.	2

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-05

Date Collected: 05/13/13 13:40

Client ID: SB-7 (0-2')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	4800		ug/kg	300	93.	2
Benzo(b)fluoranthene	6000		ug/kg	230	77.	2
Benzo(k)fluoranthene	2300		ug/kg	230	72.	2
Chrysene	6000		ug/kg	230	74.	2
Acenaphthylene	710		ug/kg	300	71.	2
Anthracene	1300		ug/kg	230	63.	2
Benzo(ghi)perylene	2700		ug/kg	300	79.	2
Fluorene	490		ug/kg	380	110	2
Phenanthrene	8200		ug/kg	230	74.	2
Dibenzo(a,h)anthracene	780		ug/kg	230	73.	2
Indeno(1,2,3-cd)Pyrene	3200		ug/kg	300	84.	2
Pyrene	12000		ug/kg	230	74.	2
Biphenyl	ND		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	270	J	ug/kg	380	130	2
2-Methylnaphthalene	130	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	72.	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	990	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	550	120	2
2,4,5-Trichlorophenol	ND		ug/kg	380	120	2
Benzoic Acid	ND		ug/kg	1200	380	2
Benzyl Alcohol	ND		ug/kg	380	120	2
Carbazole	490		ug/kg	380	82.	2

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-05

Date Collected: 05/13/13 13:40

Client ID: SB-7 (0-2')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	47		0-136
4-Terphenyl-d14	111		18-120

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-06  
**Client ID:** SB-7 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/17/13 00:19  
**Analyst:** RC  
**Percent Solids:** 77%

**Date Collected:** 05/13/13 13:45  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	170	43.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	69.	1
Hexachlorobenzene	ND		ug/kg	130	39.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	59.	1
2-Chloronaphthalene	ND		ug/kg	210	69.	1
1,2-Dichlorobenzene	ND		ug/kg	210	69.	1
1,3-Dichlorobenzene	ND		ug/kg	210	66.	1
1,4-Dichlorobenzene	ND		ug/kg	210	64.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	45.	1
2,6-Dinitrotoluene	ND		ug/kg	210	54.	1
Fluoranthene	ND		ug/kg	130	39.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	64.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	48.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	74.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	64.	1
Hexachlorobutadiene	ND		ug/kg	210	59.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	140	1
Hexachloroethane	ND		ug/kg	170	38.	1
Isophorone	ND		ug/kg	190	56.	1
Naphthalene	ND		ug/kg	210	70.	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	63.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	210	55.	1
Butyl benzyl phthalate	ND		ug/kg	210	41.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	52.	1
Diethyl phthalate	ND		ug/kg	210	44.	1
Dimethyl phthalate	ND		ug/kg	210	54.	1
Benzo(a)anthracene	ND		ug/kg	130	41.	1

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-06

Date Collected: 05/13/13 13:45

Client ID: SB-7 (12-14')

Date Received: 05/13/13

Sample Location: 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	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	42.	1
Benzo(k)fluoranthene	ND		ug/kg	130	40.	1
Chrysene	ND		ug/kg	130	41.	1
Acenaphthylene	ND		ug/kg	170	39.	1
Anthracene	ND		ug/kg	130	35.	1
Benzo(ghi)perylene	ND		ug/kg	170	44.	1
Fluorene	ND		ug/kg	210	60.	1
Phenanthrene	ND		ug/kg	130	41.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	41.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	170	47.	1
Pyrene	ND		ug/kg	130	41.	1
Biphenyl	ND		ug/kg	480	70.	1
4-Chloroaniline	ND		ug/kg	210	56.	1
2-Nitroaniline	ND		ug/kg	210	59.	1
3-Nitroaniline	ND		ug/kg	210	58.	1
4-Nitroaniline	ND		ug/kg	210	57.	1
Dibenzofuran	ND		ug/kg	210	70.	1
2-Methylnaphthalene	ND		ug/kg	250	67.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	65.	1
Acetophenone	ND		ug/kg	210	65.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
P-Chloro-M-Cresol	ND		ug/kg	210	61.	1
2-Chlorophenol	ND		ug/kg	210	64.	1
2,4-Dichlorophenol	ND		ug/kg	190	68.	1
2,4-Dimethylphenol	ND		ug/kg	210	63.	1
2-Nitrophenol	ND		ug/kg	460	66.	1
4-Nitrophenol	ND		ug/kg	300	68.	1
2,4-Dinitrophenol	ND		ug/kg	1000	290	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	77.	1
Pentachlorophenol	ND		ug/kg	170	45.	1
Phenol	ND		ug/kg	210	62.	1
2-Methylphenol	ND		ug/kg	210	68.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	69.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	68.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	45.	1

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-06

Date Collected: 05/13/13 13:45

Client ID: SB-7 (12-14')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	89		0-136
4-Terphenyl-d14	98		18-120

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-07  
 Client ID: SB-6 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 05/17/13 00:46  
 Analyst: RC  
 Percent Solids: 90%

Date Collected: 05/13/13 15:55  
 Date Received: 05/13/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	91	J	ug/kg	290	74.	2
1,2,4-Trichlorobenzene	ND		ug/kg	360	120	2
Hexachlorobenzene	ND		ug/kg	220	67.	2
Bis(2-chloroethyl)ether	ND		ug/kg	320	100	2
2-Chloronaphthalene	ND		ug/kg	360	120	2
1,2-Dichlorobenzene	ND		ug/kg	360	120	2
1,3-Dichlorobenzene	ND		ug/kg	360	110	2
1,4-Dichlorobenzene	ND		ug/kg	360	110	2
3,3'-Dichlorobenzidine	ND		ug/kg	360	96.	2
2,4-Dinitrotoluene	ND		ug/kg	360	78.	2
2,6-Dinitrotoluene	ND		ug/kg	360	92.	2
Fluoranthene	2300		ug/kg	220	66.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	360	110	2
4-Bromophenyl phenyl ether	ND		ug/kg	360	83.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	430	130	2
Bis(2-chloroethoxy)methane	ND		ug/kg	390	110	2
Hexachlorobutadiene	ND		ug/kg	360	100	2
Hexachlorocyclopentadiene	ND		ug/kg	1000	230	2
Hexachloroethane	ND		ug/kg	290	65.	2
Isophorone	ND		ug/kg	320	96.	2
Naphthalene	ND		ug/kg	360	120	2
Nitrobenzene	ND		ug/kg	320	86.	2
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	290	75.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	360	110	2
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	360	94.	2
Butyl benzyl phthalate	ND		ug/kg	360	70.	2
Di-n-butylphthalate	ND		ug/kg	360	69.	2
Di-n-octylphthalate	ND		ug/kg	360	88.	2
Diethyl phthalate	ND		ug/kg	360	76.	2
Dimethyl phthalate	ND		ug/kg	360	91.	2
Benzo(a)anthracene	990		ug/kg	220	70.	2

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-07

Date Collected: 05/13/13 15:55

Client ID: SB-6 (0-2')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	870		ug/kg	290	88.	2
Benzo(b)fluoranthene	1100		ug/kg	220	72.	2
Benzo(k)fluoranthene	470		ug/kg	220	68.	2
Chrysene	1100		ug/kg	220	70.	2
Acenaphthylene	160	J	ug/kg	290	67.	2
Anthracene	320		ug/kg	220	60.	2
Benzo(ghi)perylene	480		ug/kg	290	75.	2
Fluorene	110	J	ug/kg	360	100	2
Phenanthrene	1700		ug/kg	220	70.	2
Dibenzo(a,h)anthracene	130	J	ug/kg	220	70.	2
Indeno(1,2,3-cd)Pyrene	560		ug/kg	290	80.	2
Pyrene	2000		ug/kg	220	70.	2
Biphenyl	ND		ug/kg	820	120	2
4-Chloroaniline	ND		ug/kg	360	95.	2
2-Nitroaniline	ND		ug/kg	360	100	2
3-Nitroaniline	ND		ug/kg	360	99.	2
4-Nitroaniline	ND		ug/kg	360	97.	2
Dibenzofuran	ND		ug/kg	360	120	2
2-Methylnaphthalene	ND		ug/kg	430	110	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	360	110	2
Acetophenone	ND		ug/kg	360	110	2
2,4,6-Trichlorophenol	ND		ug/kg	220	68.	2
P-Chloro-M-Cresol	ND		ug/kg	360	100	2
2-Chlorophenol	ND		ug/kg	360	110	2
2,4-Dichlorophenol	ND		ug/kg	320	120	2
2,4-Dimethylphenol	ND		ug/kg	360	110	2
2-Nitrophenol	ND		ug/kg	780	110	2
4-Nitrophenol	ND		ug/kg	500	120	2
2,4-Dinitrophenol	ND		ug/kg	1700	490	2
4,6-Dinitro-o-cresol	ND		ug/kg	930	130	2
Pentachlorophenol	ND		ug/kg	290	77.	2
Phenol	ND		ug/kg	360	110	2
2-Methylphenol	ND		ug/kg	360	120	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	520	120	2
2,4,5-Trichlorophenol	ND		ug/kg	360	120	2
Benzoic Acid	ND		ug/kg	1200	360	2
Benzyl Alcohol	ND		ug/kg	360	110	2
Carbazole	150	J	ug/kg	360	77.	2

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-07

Date Collected: 05/13/13 15:55

Client ID: SB-6 (0-2')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	98		0-136
4-Terphenyl-d14	98		18-120

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-08  
**Client ID:** SB-6 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/17/13 01:13  
**Analyst:** RC  
**Percent Solids:** 86%

**Date Collected:** 05/13/13 16:00  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 06:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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	51.	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	51.	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: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-08

Date Collected: 05/13/13 16:00

Client ID: SB-6 (12-14')

Date Received: 05/13/13

Sample Location: 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	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	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	59.	1
Carbazole	ND		ug/kg	190	41.	1

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-08

Date Collected: 05/13/13 16:00

Client ID: SB-6 (12-14')

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	25		25-120
Phenol-d6	52		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	22		0-136
4-Terphenyl-d14	72		18-120

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 05/16/13 12:51  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG608078-1					
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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 05/16/13 12:51  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG608078-1					
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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 05/16/13 12:51  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 05:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG608078-1					
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	69		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	83		0-136
4-Terphenyl-d14	108		18-120

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG608078-2 WG608078-3									
Acenaphthene	79		83		31-137		5		50
1,2,4-Trichlorobenzene	69		74		38-107		7		50
Hexachlorobenzene	104		106		40-140		2		50
Bis(2-chloroethyl)ether	65		70		40-140		7		50
2-Chloronaphthalene	79		86		40-140		8		50
1,2-Dichlorobenzene	66		70		40-140		6		50
1,3-Dichlorobenzene	64		69		40-140		8		50
1,4-Dichlorobenzene	64		70		28-104		9		50
3,3'-Dichlorobenzidine	104		90		40-140		14		50
2,4-Dinitrotoluene	108	Q	107	Q	28-89		1		50
2,6-Dinitrotoluene	106		104		40-140		2		50
Fluoranthene	106		106		40-140		0		50
4-Chlorophenyl phenyl ether	93		97		40-140		4		50
4-Bromophenyl phenyl ether	102		105		40-140		3		50
Bis(2-chloroisopropyl)ether	64		68		40-140		6		50
Bis(2-chloroethoxy)methane	68		72		40-117		6		50
Hexachlorobutadiene	70		77		40-140		10		50
Hexachlorocyclopentadiene	65		70		40-140		7		50
Hexachloroethane	60		66		40-140		10		50
Isophorone	71		74		40-140		4		50
Naphthalene	70		75		40-140		7		50



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG608078-2 WG608078-3									
Nitrobenzene	69		73		40-140		6		50
NitrosoDiPhenylAmine(NDPA)/DPA	102		101				1		50
n-Nitrosodi-n-propylamine	68		70		32-121		3		50
Bis(2-Ethylhexyl)phthalate	95		94		40-140		1		50
Butyl benzyl phthalate	109		107		40-140		2		50
Di-n-butylphthalate	100		98		40-140		2		50
Di-n-octylphthalate	105		105		40-140		0		50
Diethyl phthalate	97		96		40-140		1		50
Dimethyl phthalate	93		95		40-140		2		50
Benzo(a)anthracene	101		99		40-140		2		50
Benzo(a)pyrene	102		101		40-140		1		50
Benzo(b)fluoranthene	95		93		40-140		2		50
Benzo(k)fluoranthene	99		99		40-140		0		50
Chrysene	98		98		40-140		0		50
Acenaphthylene	88		92		40-140		4		50
Anthracene	104		105		40-140		1		50
Benzo(ghi)perylene	100		99		40-140		1		50
Fluorene	93		96		40-140		3		50
Phenanthrene	95		96		40-140		1		50
Dibenzo(a,h)anthracene	103		102		40-140		1		50
Indeno(1,2,3-cd)Pyrene	102		101		40-140		1		50



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG608078-2 WG608078-3									
Pyrene	107		106		35-142		1		50
Biphenyl	71		79				11		50
4-Chloroaniline	60		53		40-140		12		50
2-Nitroaniline	105		104		47-134		1		50
3-Nitroaniline	85		77		26-129		10		50
4-Nitroaniline	94		93		41-125		1		50
Dibenzofuran	86		91		40-140		6		50
2-Methylnaphthalene	77		84		40-140		9		50
1,2,4,5-Tetrachlorobenzene	68		75		40-117		10		50
Acetophenone	69		73		14-144		6		50
2,4,6-Trichlorophenol	95		97		30-130		2		50
P-Chloro-M-Cresol	97		99		26-103		2		50
2-Chlorophenol	72		75		25-102		4		50
2,4-Dichlorophenol	80		86		30-130		7		50
2,4-Dimethylphenol	77		83		30-130		8		50
2-Nitrophenol	76		80		30-130		5		50
4-Nitrophenol	101		98		11-114		3		50
2,4-Dinitrophenol	78		87		4-130		11		50
4,6-Dinitro-o-cresol	111		110		10-130		1		50
Pentachlorophenol	97		98		17-109		1		50
Phenol	73		77		26-90		5		50



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG608078-2 WG608078-3									
2-Methylphenol	76		79		30-130.		4		50
3-Methylphenol/4-Methylphenol	76		80		30-130		5		50
2,4,5-Trichlorophenol	100		101		30-130		1		50
Benzoic Acid	0		0				NC		50
Benzyl Alcohol	63		68		40-140		8		50
Carbazole	102		101		54-128		1		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	80		81		25-120
Phenol-d6	85		86		10-120
Nitrobenzene-d5	78		79		23-120
2-Fluorobiphenyl	89		93		30-120
2,4,6-Tribromophenol	122		121		0-136
4-Terphenyl-d14	123	Q	118		18-120



# PCBS

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-03  
 Client ID: SB-5 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 05/18/13 20:42  
 Analyst: JT  
 Percent Solids: 78%

Date Collected: 05/13/13 10:50  
 Date Received: 05/13/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 01:35  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 05/16/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 05/16/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	41.5	8.19	1
Aroclor 1221	ND		ug/kg	41.5	12.5	1
Aroclor 1232	ND		ug/kg	41.5	8.81	1
Aroclor 1242	ND		ug/kg	41.5	7.87	1
Aroclor 1248	ND		ug/kg	41.5	5.02	1
Aroclor 1254	ND		ug/kg	41.5	6.54	1
Aroclor 1260	ND		ug/kg	41.5	7.20	1
Aroclor 1262	ND		ug/kg	41.5	3.07	1
Aroclor 1268	ND		ug/kg	41.5	6.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	84		30-150
Decachlorobiphenyl	81		30-150
2,4,5,6-Tetrachloro-m-xylene	85		30-150
Decachlorobiphenyl	87		30-150

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-04  
**Client ID:** SB-5 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 05/18/13 20:55  
**Analyst:** JT  
**Percent Solids:** 86%

**Date Collected:** 05/13/13 11:00  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 01:35  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 05/16/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 05/16/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>						
Aroclor 1016	ND		ug/kg	38.2	7.55	1
Aroclor 1221	ND		ug/kg	38.2	11.5	1
Aroclor 1232	ND		ug/kg	38.2	8.12	1
Aroclor 1242	ND		ug/kg	38.2	7.25	1
Aroclor 1248	ND		ug/kg	38.2	4.62	1
Aroclor 1254	ND		ug/kg	38.2	6.02	1
Aroclor 1260	ND		ug/kg	38.2	6.63	1
Aroclor 1262	ND		ug/kg	38.2	2.83	1
Aroclor 1268	ND		ug/kg	38.2	5.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	71		30-150

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

**Lab ID:** L1308520-05  
**Client ID:** SB-7 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 05/18/13 21:27  
**Analyst:** JT  
**Percent Solids:** 86%

**Date Collected:** 05/13/13 13:40  
**Date Received:** 05/13/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 01:35  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 05/16/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 05/16/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>						
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	7.78	1
Aroclor 1242	ND		ug/kg	36.6	6.95	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	6.36	1
Aroclor 1262	ND		ug/kg	36.6	2.71	1
Aroclor 1268	ND		ug/kg	36.6	5.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	85		30-150
Decachlorobiphenyl	89		30-150
2,4,5,6-Tetrachloro-m-xylene	85		30-150
Decachlorobiphenyl	98		30-150

**Project Name:** 522-532 W 29TH**Lab Number:** L1308520**Project Number:** 41.0162122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308520-06  
 Client ID: SB-7 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 05/18/13 21:40  
 Analyst: JT  
 Percent Solids: 77%

Date Collected: 05/13/13 13:45  
 Date Received: 05/13/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 01:35  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 05/16/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 05/16/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>						
Aroclor 1016	ND		ug/kg	42.3	8.35	1
Aroclor 1221	ND		ug/kg	42.3	12.8	1
Aroclor 1232	ND		ug/kg	42.3	8.98	1
Aroclor 1242	ND		ug/kg	42.3	8.02	1
Aroclor 1248	ND		ug/kg	42.3	5.11	1
Aroclor 1254	ND		ug/kg	42.3	6.66	1
Aroclor 1260	ND		ug/kg	42.3	7.34	1
Aroclor 1262	ND		ug/kg	42.3	3.13	1
Aroclor 1268	ND		ug/kg	42.3	6.13	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	64		30-150
Decachlorobiphenyl	51		30-150
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	50		30-150

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 05/17/13 18:02  
Analyst: JT

Extraction Method: EPA 3546  
Extraction Date: 05/15/13 01:35  
Cleanup Method1: EPA 3665A  
Cleanup Date1: 05/15/13  
Cleanup Method2: EPA 3660B  
Cleanup Date2: 05/15/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03-06 Batch: WG608051-1					
Aroclor 1016	ND		ug/kg	32.7	6.45
Aroclor 1221	ND		ug/kg	32.7	9.86
Aroclor 1232	ND		ug/kg	32.7	6.94
Aroclor 1242	ND		ug/kg	32.7	6.20
Aroclor 1248	ND		ug/kg	32.7	3.95
Aroclor 1254	ND		ug/kg	32.7	5.15
Aroclor 1260	ND		ug/kg	32.7	5.67
Aroclor 1262	ND		ug/kg	32.7	2.42
Aroclor 1268	ND		ug/kg	32.7	4.74

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	77		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	85		30-150

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Limits			
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03-06 Batch: WG608051-2 WG608051-3									
Aroclor 1016	69		81		40-140		16		50
Aroclor 1260	62		76		40-140		20		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2,4,5,6-Tetrachloro-m-xylene	72		75		30-150
Decachlorobiphenyl	67		78		30-150
2,4,5,6-Tetrachloro-m-xylene	72		75		30-150
Decachlorobiphenyl	73		83		30-150



## METALS

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-01  
 Client ID: SB-4 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 92%

Date Collected: 05/13/13 09:30  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	6600		mg/kg	4.3	0.86	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	2.1	0.43	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Arsenic, Total	2.2		mg/kg	0.43	0.13	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Barium, Total	52		mg/kg	0.43	0.13	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Beryllium, Total	0.29		mg/kg	0.21	0.02	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Cadmium, Total	0.28	J	mg/kg	0.43	0.03	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Calcium, Total	3800		mg/kg	4.3	0.86	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Chromium, Total	15		mg/kg	0.43	0.09	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Cobalt, Total	5.0		mg/kg	0.86	0.21	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Copper, Total	17		mg/kg	0.43	0.21	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Iron, Total	12000		mg/kg	2.1	0.86	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Lead, Total	39		mg/kg	2.1	0.13	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Magnesium, Total	2100		mg/kg	4.3	1.7	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Manganese, Total	250		mg/kg	0.43	0.09	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Mercury, Total	0.10		mg/kg	0.07	0.02	1	05/20/13 08:40	05/20/13 11:40	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	1.1	0.17	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Potassium, Total	800		mg/kg	110	34.	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	0.86	0.13	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.43	0.09	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Sodium, Total	170		mg/kg	86	34.	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	0.86	0.26	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Vanadium, Total	18		mg/kg	0.43	0.09	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL
Zinc, Total	30		mg/kg	2.1	0.21	1	05/15/13 14:36	05/18/13 09:56	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-02  
 Client ID: SB-4 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 83%

Date Collected: 05/13/13 09:40  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	6600		mg/kg	4.5	0.90	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	2.3	0.45	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Arsenic, Total	2.1		mg/kg	0.45	0.14	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Barium, Total	51		mg/kg	0.45	0.14	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Beryllium, Total	0.33		mg/kg	0.23	0.02	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Cadmium, Total	0.25	J	mg/kg	0.45	0.03	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Calcium, Total	2500		mg/kg	4.5	0.90	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Chromium, Total	21		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Cobalt, Total	5.8		mg/kg	0.90	0.23	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Copper, Total	15		mg/kg	0.45	0.23	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Iron, Total	12000		mg/kg	2.3	0.90	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Lead, Total	65		mg/kg	2.3	0.14	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Magnesium, Total	2400		mg/kg	4.5	1.8	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Manganese, Total	280		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Mercury, Total	0.12		mg/kg	0.09	0.02	1	05/20/13 08:40	05/20/13 11:41	EPA 7471B	1,7471B	MC
Nickel, Total	32		mg/kg	1.1	0.18	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Potassium, Total	810		mg/kg	110	36.	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	0.90	0.14	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Sodium, Total	91		mg/kg	90	36.	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	0.90	0.27	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Vanadium, Total	16		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL
Zinc, Total	20		mg/kg	2.3	0.23	1	05/15/13 14:36	05/18/13 10:00	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-03  
 Client ID: SB-5 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 78%

Date Collected: 05/13/13 10:50  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	4000		mg/kg	5.0	1.0	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Antimony, Total	1.2	J	mg/kg	2.5	0.50	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Arsenic, Total	7.1		mg/kg	0.50	0.15	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Barium, Total	90		mg/kg	0.50	0.15	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Beryllium, Total	0.18	J	mg/kg	0.25	0.02	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Cadmium, Total	0.33	J	mg/kg	0.50	0.03	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Calcium, Total	28000		mg/kg	5.0	1.0	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Chromium, Total	9.2		mg/kg	0.50	0.10	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Cobalt, Total	3.2		mg/kg	1.0	0.25	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Copper, Total	100		mg/kg	0.50	0.25	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Iron, Total	8800		mg/kg	2.5	1.0	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Lead, Total	340		mg/kg	2.5	0.15	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Magnesium, Total	2300		mg/kg	5.0	2.0	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Manganese, Total	190		mg/kg	0.50	0.10	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Mercury, Total	0.40		mg/kg	0.08	0.02	1	05/20/13 08:40	05/20/13 11:43	EPA 7471B	1,7471B	MC
Nickel, Total	7.4		mg/kg	1.2	0.20	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Potassium, Total	860		mg/kg	120	40.	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Selenium, Total	0.45	J	mg/kg	1.0	0.15	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Silver, Total	0.51		mg/kg	0.50	0.10	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Sodium, Total	380		mg/kg	100	40.	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.0	0.30	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Vanadium, Total	16		mg/kg	0.50	0.10	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL
Zinc, Total	130		mg/kg	2.5	0.25	1	05/15/13 14:36	05/18/13 10:03	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-04  
 Client ID: SB-5 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 86%

Date Collected: 05/13/13 11:00  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	6300		mg/kg	4.5	0.90	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	2.2	0.45	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Arsenic, Total	2.2		mg/kg	0.45	0.13	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Barium, Total	26		mg/kg	0.45	0.13	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Beryllium, Total	0.25		mg/kg	0.22	0.02	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Cadmium, Total	0.26	J	mg/kg	0.45	0.03	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Calcium, Total	820		mg/kg	4.5	0.90	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Chromium, Total	9.9		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Cobalt, Total	4.9		mg/kg	0.90	0.22	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Copper, Total	11		mg/kg	0.45	0.22	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Iron, Total	12000		mg/kg	2.2	0.90	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Lead, Total	5.5		mg/kg	2.2	0.13	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Magnesium, Total	2200		mg/kg	4.5	1.8	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Manganese, Total	170		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Mercury, Total	ND		mg/kg	0.08	0.02	1	05/20/13 08:40	05/20/13 11:45	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	1.1	0.18	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Potassium, Total	460		mg/kg	110	36.	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	0.90	0.13	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Sodium, Total	300		mg/kg	90	36.	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	0.90	0.27	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Vanadium, Total	13		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL
Zinc, Total	23		mg/kg	2.2	0.22	1	05/15/13 14:36	05/18/13 10:07	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-05  
 Client ID: SB-7 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 86%

Date Collected: 05/13/13 13:40  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	4900		mg/kg	4.5	0.89	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Antimony, Total	2.6		mg/kg	2.2	0.45	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Arsenic, Total	12		mg/kg	0.45	0.13	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Barium, Total	270		mg/kg	0.45	0.13	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Beryllium, Total	0.22		mg/kg	0.22	0.02	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Cadmium, Total	1.2		mg/kg	0.45	0.03	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Calcium, Total	59000		mg/kg	450	89.	100	05/15/13 14:36	05/20/13 12:47	EPA 3050B	1,6010C	KL
Chromium, Total	12		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Cobalt, Total	4.5		mg/kg	0.89	0.22	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Copper, Total	60		mg/kg	0.45	0.22	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Iron, Total	15000		mg/kg	2.2	0.89	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Lead, Total	1200		mg/kg	2.2	0.13	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Magnesium, Total	2300		mg/kg	4.5	1.8	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Manganese, Total	200		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Mercury, Total	4.4		mg/kg	0.89	0.19	10	05/20/13 08:40	05/20/13 11:53	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	1.1	0.18	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Potassium, Total	2000		mg/kg	110	36.	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Selenium, Total	2.4		mg/kg	0.89	0.13	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Silver, Total	0.16	J	mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Sodium, Total	930		mg/kg	89	36.	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	0.89	0.27	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Vanadium, Total	14		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL
Zinc, Total	450		mg/kg	2.2	0.22	1	05/15/13 14:36	05/18/13 10:30	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-06  
 Client ID: SB-7 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 77%

Date Collected: 05/13/13 13:45  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	8600		mg/kg	5.0	1.0	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	2.5	0.50	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Arsenic, Total	2.7		mg/kg	0.50	0.15	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Barium, Total	40		mg/kg	0.50	0.15	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Beryllium, Total	0.38		mg/kg	0.25	0.02	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Cadmium, Total	0.34	J	mg/kg	0.50	0.03	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Calcium, Total	1300		mg/kg	500	100	100	05/15/13 14:36	05/20/13 12:50	EPA 3050B	1,6010C	KL
Chromium, Total	14		mg/kg	0.50	0.10	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Cobalt, Total	6.5		mg/kg	1.0	0.25	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Copper, Total	14		mg/kg	0.50	0.25	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Iron, Total	15000		mg/kg	2.5	1.0	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Lead, Total	7.4		mg/kg	2.5	0.15	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Magnesium, Total	2600		mg/kg	5.0	2.0	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Manganese, Total	200		mg/kg	0.50	0.10	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Mercury, Total	ND		mg/kg	0.09	0.02	1	05/20/13 08:40	05/20/13 11:55	EPA 7471B	1,7471B	MC
Nickel, Total	13		mg/kg	1.2	0.20	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Potassium, Total	700		mg/kg	120	40.	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Selenium, Total	0.28	J	mg/kg	1.0	0.15	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.50	0.10	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Sodium, Total	170		mg/kg	100	40.	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.0	0.30	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Vanadium, Total	17		mg/kg	0.50	0.10	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL
Zinc, Total	31		mg/kg	2.5	0.25	1	05/15/13 14:36	05/18/13 10:34	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-07  
 Client ID: SB-6 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 90%

Date Collected: 05/13/13 15:55  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	6200		mg/kg	4.4	0.88	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Antimony, Total	1.1	J	mg/kg	2.2	0.44	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Arsenic, Total	6.2		mg/kg	0.44	0.13	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Barium, Total	98		mg/kg	0.44	0.13	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Beryllium, Total	0.25		mg/kg	0.22	0.02	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Cadmium, Total	0.78		mg/kg	0.44	0.03	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Calcium, Total	16000		mg/kg	440	88.	100	05/15/13 14:36	05/20/13 12:54	EPA 3050B	1,6010C	KL
Chromium, Total	14		mg/kg	0.44	0.09	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Cobalt, Total	4.2		mg/kg	0.88	0.22	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Copper, Total	58		mg/kg	0.44	0.22	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Iron, Total	14000		mg/kg	2.2	0.88	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Lead, Total	300		mg/kg	2.2	0.13	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Magnesium, Total	2200		mg/kg	4.4	1.8	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Manganese, Total	270		mg/kg	0.44	0.09	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Mercury, Total	2.7		mg/kg	0.40	0.09	5	05/20/13 08:40	05/20/13 12:03	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	1.1	0.18	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Potassium, Total	660		mg/kg	110	35.	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Selenium, Total	0.18	J	mg/kg	0.88	0.13	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Silver, Total	0.15	J	mg/kg	0.44	0.09	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Sodium, Total	180		mg/kg	88	35.	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	0.88	0.26	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Vanadium, Total	22		mg/kg	0.44	0.09	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL
Zinc, Total	170		mg/kg	2.2	0.22	1	05/15/13 14:36	05/18/13 10:38	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-08  
 Client ID: SB-6 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 86%

Date Collected: 05/13/13 16:00  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	6700		mg/kg	4.5	0.91	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	2.3	0.45	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Arsenic, Total	2.2		mg/kg	0.45	0.14	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Barium, Total	85		mg/kg	0.45	0.14	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Beryllium, Total	0.25		mg/kg	0.23	0.02	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Cadmium, Total	0.28	J	mg/kg	0.45	0.03	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Calcium, Total	6400		mg/kg	450	91.	100	05/15/13 14:36	05/20/13 12:58	EPA 3050B	1,6010C	KL
Chromium, Total	9.8		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Cobalt, Total	5.4		mg/kg	0.91	0.23	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Copper, Total	12		mg/kg	0.45	0.23	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Iron, Total	13000		mg/kg	2.3	0.91	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Lead, Total	8.1		mg/kg	2.3	0.14	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Magnesium, Total	3500		mg/kg	4.5	1.8	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Manganese, Total	200		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Mercury, Total	ND		mg/kg	0.09	0.02	1	05/20/13 08:40	05/20/13 11:59	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	1.1	0.18	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Potassium, Total	490		mg/kg	110	36.	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	0.91	0.14	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Sodium, Total	190		mg/kg	91	36.	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	0.91	0.27	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Vanadium, Total	12		mg/kg	0.45	0.09	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL
Zinc, Total	30		mg/kg	2.3	0.23	1	05/15/13 14:36	05/18/13 10:41	EPA 3050B	1,6010C	KL



Project Name: 522-532 W 29TH  
 Project Number: 41.0162122.00

Lab Number: L1308520  
 Report Date: 05/20/13

## 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): 01-08 Batch: WG608242-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Antimony, Total	ND		mg/kg	2.0	0.40	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Arsenic, Total	ND		mg/kg	0.40	0.12	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Barium, Total	ND		mg/kg	0.40	0.12	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Beryllium, Total	ND		mg/kg	0.20	0.02	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Cadmium, Total	ND		mg/kg	0.40	0.02	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Calcium, Total	0.84	J	mg/kg	4.0	0.80	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Chromium, Total	ND		mg/kg	0.40	0.08	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Cobalt, Total	ND		mg/kg	0.80	0.20	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Copper, Total	ND		mg/kg	0.40	0.20	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Iron, Total	ND		mg/kg	2.0	0.80	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Lead, Total	ND		mg/kg	2.0	0.12	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Magnesium, Total	ND		mg/kg	4.0	1.6	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Manganese, Total	ND		mg/kg	0.40	0.08	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Nickel, Total	ND		mg/kg	1.0	0.16	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Potassium, Total	ND		mg/kg	100	32.	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Selenium, Total	ND		mg/kg	0.80	0.12	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Silver, Total	ND		mg/kg	0.40	0.08	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Sodium, Total	ND		mg/kg	80	32.	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Thallium, Total	ND		mg/kg	0.80	0.24	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Vanadium, Total	ND		mg/kg	0.40	0.08	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL
Zinc, Total	ND		mg/kg	2.0	0.20	1	05/15/13 14:36	05/18/13 08:43	1,6010C	KL

### 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): 01-08 Batch: WG609187-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	05/20/13 08:40	05/20/13 10:57	1,7471B	MC



**Project Name:** 522-532 W 29TH

**Lab Number:** L1308520

**Project Number:** 41.0162122.00

**Report Date:** 05/20/13

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

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Digestion Method: EPA 7471B

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG608242-2 SRM Lot Number: 0518-10-02									
Aluminum, Total	85	-	-	-	29-171	-	-	-	-
Antimony, Total	122	-	-	-	4-196	-	-	-	-
Arsenic, Total	100	-	-	-	81-119	-	-	-	-
Barium, Total	96	-	-	-	83-118	-	-	-	-
Beryllium, Total	98	-	-	-	83-117	-	-	-	-
Cadmium, Total	94	-	-	-	82-117	-	-	-	-
Calcium, Total	96	-	-	-	83-117	-	-	-	-
Chromium, Total	97	-	-	-	80-119	-	-	-	-
Cobalt, Total	102	-	-	-	83-117	-	-	-	-
Copper, Total	101	-	-	-	83-117	-	-	-	-
Iron, Total	94	-	-	-	51-150	-	-	-	-
Lead, Total	99	-	-	-	80-120	-	-	-	-
Magnesium, Total	97	-	-	-	74-126	-	-	-	-
Manganese, Total	95	-	-	-	83-117	-	-	-	-
Nickel, Total	99	-	-	-	82-117	-	-	-	-
Potassium, Total	99	-	-	-	74-126	-	-	-	-
Selenium, Total	102	-	-	-	80-120	-	-	-	-
Silver, Total	105	-	-	-	66-134	-	-	-	-
Sodium, Total	98	-	-	-	74-127	-	-	-	-
Thallium, Total	106	-	-	-	79-120	-	-	-	-
Vanadium, Total	98	-	-	-	79-121	-	-	-	-



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	LCS %Recovery	LCS %Recovery	%Recovery Limits	RPD	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG608242-2 SRM Lot Number: 0518-10-02</b>					
Zinc, Total	97	-	82-119	-	
<b>Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG609187-2 SRM Lot Number: 0518-10-02</b>					
Mercury, Total	117	-	67-133	-	



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG608242-4 QC Sample: L1308518-01 Client ID: MS Sample											
Aluminum, Total	5800	176	5900	57	Q	-	-	-	75-125	-	35
Antimony, Total	0.75J	44	40	91		-	-	-	75-125	-	35
Arsenic, Total	3.9	10.6	14	96		-	-	-	75-125	-	35
Barium, Total	130	176	240	62	Q	-	-	-	75-125	-	35
Beryllium, Total	0.27	4.4	4.2	89		-	-	-	75-125	-	35
Cadmium, Total	0.35J	4.49	4.4	98		-	-	-	75-125	-	35
Calcium, Total	59000	880	49000	0	Q	-	-	-	75-125	-	35
Chromium, Total	9.3	17.6	23	78		-	-	-	75-125	-	35
Cobalt, Total	3.5	44	42	88		-	-	-	75-125	-	35
Copper, Total	36.	22	34	0	Q	-	-	-	75-125	-	35
Iron, Total	7800	88	7300	0	Q	-	-	-	75-125	-	35
Lead, Total	210	44.9	100	0	Q	-	-	-	75-125	-	35
Magnesium, Total	2900	880	3500	68	Q	-	-	-	75-125	-	35
Manganese, Total	140	44	150	23	Q	-	-	-	75-125	-	35
Nickel, Total	9.1	44	45	82		-	-	-	75-125	-	35
Potassium, Total	1200	880	1900	80		-	-	-	75-125	-	35
Selenium, Total	0.25J	10.6	10	95		-	-	-	75-125	-	35
Silver, Total	0.99	26.4	70	261	Q	-	-	-	75-125	-	35
Sodium, Total	260	880	1200	107		-	-	-	75-125	-	35
Thallium, Total	ND	10.6	9.3	88		-	-	-	75-125	-	35
Vanadium, Total	14.	44	54	91		-	-	-	75-125	-	35



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG608242-4 QC Sample: L1308518-01 Client ID: MS Sample</b>								
Zinc, Total	260	44	130	0	Q	-	75-125	35
<b>Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG609187-4 QC Sample: L1308469-03 Client ID: MS Sample</b>								
Mercury, Total	ND	0.155	0.17	110	-	-	70-130	35



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG608242-3 QC Sample: L1308518-01 Client ID: DUP Sample</b>						
Aluminum, Total	5800	5800	mg/kg	0		35
Antimony, Total	0.75J	0.44J	mg/kg	NC		35
Arsenic, Total	3.9	3.6	mg/kg	8		35
Barium, Total	130	100	mg/kg	26		35
Beryllium, Total	0.27	0.25	mg/kg	8		35
Cadmium, Total	0.35J	0.31J	mg/kg	NC		35
Chromium, Total	9.3	8.9	mg/kg	4		35
Cobalt, Total	3.5	3.4	mg/kg	3		35
Copper, Total	36.	16	mg/kg	77	Q	35
Iron, Total	7800	8500	mg/kg	9		35
Lead, Total	210	92	mg/kg	78	Q	35
Magnesium, Total	2900	2800	mg/kg	4		35
Manganese, Total	140	150	mg/kg	7		35
Nickel, Total	9.1	7.5	mg/kg	19		35
Potassium, Total	1200	1000	mg/kg	18		35
Selenium, Total	0.25J	0.13J	mg/kg	NC		35
Silver, Total	0.99	0.87	mg/kg	13		35
Sodium, Total	260	270	mg/kg	4		35
Thallium, Total	ND	ND	mg/kg	NC		35



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG608242-3 QC Sample: L1308518-01 Client ID: DUP Sample</b>					
Vanadium, Total	14.	14	mg/kg	0	35
Zinc, Total	260	79	mg/kg	107	35
<b>Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG608242-3 QC Sample: L1308518-01 Client ID: DUP Sample</b>					
Calcium, Total	59000	48000	mg/kg	21	35
<b>Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG609187-3 QC Sample: L1308469-03 Client ID: DUP Sample</b>					
Mercury, Total	ND	ND	mg/kg	NC	35



# **INORGANICS & MISCELLANEOUS**

Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-01

Date Collected: 05/13/13 09:30

Client ID: SB-4 (0-2')

Date Received: 05/13/13

Sample Location: 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	92.0		%	0.100	NA	1	-	05/14/13 01:18	30,2540G	RD



Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-02

Date Collected: 05/13/13 09:40

Client ID: SB-4 (12-14')

Date Received: 05/13/13

Sample Location: 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	82.7		%	0.100	NA	1	-	05/14/13 01:18	30,2540G	RD



Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-03

Date Collected: 05/13/13 10:50

Client ID: SB-5 (0-2')

Date Received: 05/13/13

Sample Location: 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	78.1		%	0.100	NA	1	-	05/14/13 01:18	30,2540G	RD



Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-04

Date Collected: 05/13/13 11:00

Client ID: SB-5 (12-14')

Date Received: 05/13/13

Sample Location: 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	86.4		%	0.100	NA	1	-	05/14/13 01:18	30,2540G	RD



**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

**Lab ID:** L1308520-05  
**Client ID:** SB-7 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil

**Date Collected:** 05/13/13 13:40  
**Date Received:** 05/13/13  
**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	86.2		%	0.100	NA	1	-	05/14/13 01:18	30,2540G	RD



Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## SAMPLE RESULTS

Lab ID: L1308520-06

Date Collected: 05/13/13 13:45

Client ID: SB-7 (12-14')

Date Received: 05/13/13

Sample Location: 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	77.2		%	0.100	NA	1	-	05/14/13 01:18	30,2540G	RD



Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-07

Date Collected: 05/13/13 15:55

Client ID: SB-6 (0-2')

Date Received: 05/13/13

Sample Location: 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	89.9		%	0.100	NA	1	-	05/14/13 01:18	30,2540G	RD



Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308520-08

Date Collected: 05/13/13 16:00

Client ID: SB-6 (12-14')

Date Received: 05/13/13

Sample Location: 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	85.8		%	0.100	NA	1	-	05/14/13 01:18	30,2540G	RD



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308520  
**Report Date:** 05/20/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG607740-1 QC Sample: L1308506-01 Client ID: DUP Sample						
Solids, Total	85.2	87.3	%	2		20



Project Name: 522-532 W 29TH

Lab Number: L1308520

Project Number: 41.0162122.00

Report Date: 05/20/13

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 05/13/2013 23:39

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308520-01A	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-01B	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-01C	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-01D	Vial MeOH preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-01E	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-01F	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-01G	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-01H	Plastic 2oz unpreserved for TS	A	N/A	2.6	Y	Absent	TS(7)
L1308520-02A	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-02B	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-02C	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-02D	Vial MeOH preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-02E	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-02F	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)

\*Values in parentheses indicate holding time in days



Project Name: 522-532 W 29TH

Project Number: 41.0162122.00

Lab Number: L1308520

Report Date: 05/20/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308520-02G	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-02H	Plastic 2oz unpreserved for TS	A	N/A	2.6	Y	Absent	TS(7)
L1308520-03A	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-03B	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-03C	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-03D	Vial MeOH preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-03E	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-03F	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-03G	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-03H	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-03I	Plastic 2oz unpreserved for TS	A	N/A	2.6	Y	Absent	TS(7)
L1308520-04A	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-04B	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-04C	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-04D	Vial MeOH preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-04E	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)

\*Values in parentheses indicate holding time in days



Project Name: 522-532 W 29TH

Project Number: 41.0162122.00

Lab Number: L1308520

Report Date: 05/20/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308520-04F	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-04G	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-04H	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-04I	Plastic 2oz unpreserved for TS	A	N/A	2.6	Y	Absent	TS(7)
L1308520-05A	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-05B	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-05C	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-05D	Vial MeOH preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-05E	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-05F	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-05G	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



Project Name: 522-532 W 29TH

Project Number: 41.0162122.00

Lab Number: L1308520

Report Date: 05/20/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308520-05H	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-05I	Plastic 2oz unpreserved for TS	A	N/A	2.6	Y	Absent	TS(7)
L1308520-06A	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-06B	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-06C	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-06D	Vial MeOH preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-06E	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-06F	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-06G	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-06H	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-06I	Plastic 2oz unpreserved for TS	A	N/A	2.6	Y	Absent	TS(7)
L1308520-07A	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-07B	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-07C	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-07D	Vial MeOH preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-07E	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)

\*Values in parentheses indicate holding time in days



Project Name: 522-532 W 29TH

Project Number: 41.0162122.00

Lab Number: L1308520

Report Date: 05/20/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308520-07F	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-07G	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-07H	Plastic 2oz unpreserved for TS	A	N/A	2.6	Y	Absent	TS(7)
L1308520-08A	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-08B	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-08C	5 gram Encore Sampler	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(2)
L1308520-08D	Vial MeOH preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-08E	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-08F	Vial Water preserved split	A	N/A	2.6	Y	Absent	NYTCL-8260HLW(14)
L1308520-08G	Amber 250ml unpreserved	A	N/A	2.6	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308520-08H	Plastic 2oz unpreserved for TS	A	N/A	2.6	Y	Absent	TS(7)

\*Values in parentheses indicate holding time in days



**Project Name:** 522-532 W 29TH  
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**Report Date:** 05/20/13

## 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:** 522-532 W 29TH  
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**Lab Number:** L1308520  
**Report Date:** 05/20/13

#### **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

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**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

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**Report Date:** 05/20/13

## 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 – Coliart (SM9223, Enumeration and P/A), E. Coli. – Coliart (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 – Coliart (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; Coliart, 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, 4500NO3-F, 353.2, 4500P-E, 4500SO4-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, 4500NO3-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, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-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 4500NH3-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, 4500NH3-H, 4500NO2B, 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, 4500NO3-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, 4500NO3-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.)

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:	L1308532
Client:	GZA GeoEnvironmental, Inc. 104 West 29th Street, 10th Floor New York, NY 10001
ATTN:	James Bellew
Phone:	(212) 594-8140
Project Name:	522 532 W 29TH ST
Project Number:	41.0122122.00
Report Date:	05/20/13

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.

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508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1308532-01	SV-6	NYC	05/13/13 10:25
L1308532-02	SV-4	NYC	05/13/13 14:20
L1308532-03	SV-2	NYC	05/13/13 15:02
L1308532-04	SV-3	NYC	05/13/13 16:17

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

### 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.

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**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on May 10, 2013. The canister certification results are provided as an addendum.

Samples L1308532-01 through -04: 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.

Samples L1308532-01 and -03 results for Propylene should be considered estimated due to co-elution with a non-target peak.

Sample L1308532-01 The presence of 2,2,4-Trimethylpentane and 4-Methyl-2-pentanone could not be determined in this sample due to a non-target compound interfering with the identification and quantification of these compounds.

Sample L1308532-03 results for 4-Methyl-2-Pentanone should be considered estimated due to co-elution with a non-target peaks.

Sample L1308532-03 The presence of 2,2,4-Trimethylpentane could not be determined in this sample due to a non-target compound interfering with the identification and quantification of this compound.

Sample L1308532-04 results for 4-Methyl-2-Pentanone should be considered estimated due to co-elution with a non-target peak.

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: 05/20/13

**AIR**

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

### SAMPLE RESULTS

Lab ID: L1308532-01 D  
 Client ID: SV-6  
 Sample Location: NYC  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 05/15/13 23:40  
 Analyst: MB

Date Collected: 05/13/13 10:25  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	5.20	1.12	--	8.95	1.93	--		2.231
Dichlorodifluoromethane	0.598	0.446	--	2.96	2.21	--		2.231
Chloromethane	ND	0.446	--	ND	0.921	--		2.231
Freon-114	ND	0.446	--	ND	3.12	--		2.231
Vinyl chloride	ND	0.446	--	ND	1.14	--		2.231
1,3-Butadiene	0.500	0.446	--	1.11	0.987	--		2.231
Bromomethane	ND	0.446	--	ND	1.73	--		2.231
Chloroethane	ND	0.446	--	ND	1.18	--		2.231
Ethanol	6.74	5.58	--	12.7	10.5	--		2.231
Vinyl bromide	ND	0.446	--	ND	1.95	--		2.231
Acetone	59.4	2.23	--	141	5.30	--		2.231
Trichlorofluoromethane	ND	0.446	--	ND	2.51	--		2.231
Isopropanol	1.14	1.12	--	2.80	2.75	--		2.231
1,1-Dichloroethene	ND	0.446	--	ND	1.77	--		2.231
Methylene chloride	2.54	2.23	--	8.82	7.75	--		2.231
3-Chloropropene	ND	0.446	--	ND	1.40	--		2.231
Carbon disulfide	1.54	0.446	--	4.80	1.39	--		2.231
Freon-113	ND	0.446	--	ND	3.42	--		2.231
trans-1,2-Dichloroethene	ND	0.446	--	ND	1.77	--		2.231
1,1-Dichloroethane	ND	0.446	--	ND	1.81	--		2.231
Methyl tert butyl ether	ND	0.446	--	ND	1.61	--		2.231
Vinyl acetate	ND	0.446	--	ND	1.57	--		2.231
2-Butanone	14.9	0.446	--	43.9	1.32	--		2.231
cis-1,2-Dichloroethene	0.761	0.446	--	3.02	1.77	--		2.231



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**Lab Number:** L1308532  
**Report Date:** 05/20/13

### SAMPLE RESULTS

Lab ID: L1308532-01 D  
 Client ID: SV-6  
 Sample Location: NYC

Date Collected: 05/13/13 10:25  
 Date Received: 05/13/13  
 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	1.12	--	ND	4.04	--		2.231
Chloroform	3.88	0.446	--	18.9	2.18	--		2.231
Tetrahydrofuran	ND	0.446	--	ND	1.32	--		2.231
1,2-Dichloroethane	ND	0.446	--	ND	1.81	--		2.231
n-Hexane	5.13	0.446	--	18.1	1.57	--		2.231
1,1,1-Trichloroethane	1.84	0.446	--	10.0	2.43	--		2.231
Benzene	3.43	0.446	--	11.0	1.42	--		2.231
Carbon tetrachloride	ND	0.446	--	ND	2.81	--		2.231
Cyclohexane	1.86	0.446	--	6.40	1.54	--		2.231
1,2-Dichloropropane	ND	0.446	--	ND	2.06	--		2.231
Bromodichloromethane	ND	0.446	--	ND	2.99	--		2.231
1,4-Dioxane	ND	0.446	--	ND	1.61	--		2.231
Trichloroethene	1.00	0.446	--	5.37	2.40	--		2.231
2,2,4-Trimethylpentane	ND	0.446	--	ND	2.08	--		2.231
Heptane	11.2	0.446	--	45.9	1.83	--		2.231
cis-1,3-Dichloropropene	ND	0.446	--	ND	2.02	--		2.231
4-Methyl-2-pentanone	ND	0.446	--	ND	1.83	--		2.231
trans-1,3-Dichloropropene	ND	0.446	--	ND	2.02	--		2.231
1,1,2-Trichloroethane	ND	0.446	--	ND	2.43	--		2.231
Toluene	29.9	0.446	--	113	1.68	--		2.231
2-Hexanone	ND	0.446	--	ND	1.83	--		2.231
Dibromochloromethane	ND	0.446	--	ND	3.80	--		2.231
1,2-Dibromoethane	ND	0.446	--	ND	3.43	--		2.231
Tetrachloroethene	1.10	0.446	--	7.46	3.02	--		2.231
Chlorobenzene	ND	0.446	--	ND	2.05	--		2.231
Ethylbenzene	12.2	0.446	--	53.0	1.94	--		2.231
p/m-Xylene	55.5	0.892	--	241	3.87	--		2.231
Bromoform	ND	0.446	--	ND	4.61	--		2.231



**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308532-01 D  
 Client ID: SV-6  
 Sample Location: NYC

Date Collected: 05/13/13 10:25  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	0.602	0.446	--	2.56	1.90	--		2.231
1,1,2,2-Tetrachloroethane	ND	0.446	--	ND	3.06	--		2.231
o-Xylene	21.3	0.446	--	92.5	1.94	--		2.231
4-Ethyltoluene	9.32	0.446	--	45.8	2.19	--		2.231
1,3,5-Trimethylbenzene	8.89	0.446	--	43.7	2.19	--		2.231
1,2,4-Trimethylbenzene	30.7	0.446	--	151	2.19	--		2.231
Benzyl chloride	ND	0.446	--	ND	2.31	--		2.231
1,3-Dichlorobenzene	ND	0.446	--	ND	2.68	--		2.231
1,4-Dichlorobenzene	ND	0.446	--	ND	2.68	--		2.231
1,2-Dichlorobenzene	ND	0.446	--	ND	2.68	--		2.231
1,2,4-Trichlorobenzene	ND	0.446	--	ND	3.31	--		2.231
Hexachlorobutadiene	ND	0.446	--	ND	4.76	--		2.231

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	106		60-140



**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

### SAMPLE RESULTS

Lab ID: L1308532-02 D  
 Client ID: SV-4  
 Sample Location: NYC  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 05/16/13 00:11  
 Analyst: MB

Date Collected: 05/13/13 14:20  
 Date Received: 05/13/13  
 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	1.09	--	ND	1.88	--		2.182
Dichlorodifluoromethane	0.563	0.436	--	2.78	2.16	--		2.182
Chloromethane	ND	0.436	--	ND	0.900	--		2.182
Freon-114	ND	0.436	--	ND	3.05	--		2.182
Vinyl chloride	ND	0.436	--	ND	1.11	--		2.182
1,3-Butadiene	ND	0.436	--	ND	0.965	--		2.182
Bromomethane	ND	0.436	--	ND	1.69	--		2.182
Chloroethane	ND	0.436	--	ND	1.15	--		2.182
Ethanol	ND	5.46	--	ND	10.3	--		2.182
Vinyl bromide	ND	0.436	--	ND	1.91	--		2.182
Acetone	18.8	2.18	--	44.7	5.18	--		2.182
Trichlorofluoromethane	ND	0.436	--	ND	2.45	--		2.182
Isopropanol	ND	1.09	--	ND	2.68	--		2.182
1,1-Dichloroethene	ND	0.436	--	ND	1.73	--		2.182
Methylene chloride	ND	2.18	--	ND	7.57	--		2.182
3-Chloropropene	ND	0.436	--	ND	1.36	--		2.182
Carbon disulfide	1.25	0.436	--	3.89	1.36	--		2.182
Freon-113	ND	0.436	--	ND	3.34	--		2.182
trans-1,2-Dichloroethene	ND	0.436	--	ND	1.73	--		2.182
1,1-Dichloroethane	ND	0.436	--	ND	1.76	--		2.182
Methyl tert butyl ether	ND	0.436	--	ND	1.57	--		2.182
Vinyl acetate	ND	0.436	--	ND	1.54	--		2.182
2-Butanone	4.08	0.436	--	12.0	1.29	--		2.182
cis-1,2-Dichloroethene	ND	0.436	--	ND	1.73	--		2.182



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### SAMPLE RESULTS

Lab ID: L1308532-02 D  
 Client ID: SV-4  
 Sample Location: NYC

Date Collected: 05/13/13 14:20  
 Date Received: 05/13/13  
 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	1.09	--	ND	3.93	--		2.182
Chloroform	11.2	0.436	--	54.7	2.13	--		2.182
Tetrahydrofuran	ND	0.436	--	ND	1.29	--		2.182
1,2-Dichloroethane	ND	0.436	--	ND	1.76	--		2.182
n-Hexane	2.00	0.436	--	7.05	1.54	--		2.182
1,1,1-Trichloroethane	ND	0.436	--	ND	2.38	--		2.182
Benzene	1.36	0.436	--	4.34	1.39	--		2.182
Carbon tetrachloride	ND	0.436	--	ND	2.74	--		2.182
Cyclohexane	ND	0.436	--	ND	1.50	--		2.182
1,2-Dichloropropane	ND	0.436	--	ND	2.02	--		2.182
Bromodichloromethane	0.692	0.436	--	4.64	2.92	--		2.182
1,4-Dioxane	ND	0.436	--	ND	1.57	--		2.182
Trichloroethene	ND	0.436	--	ND	2.34	--		2.182
2,2,4-Trimethylpentane	ND	0.436	--	ND	2.04	--		2.182
Heptane	2.33	0.436	--	9.55	1.79	--		2.182
cis-1,3-Dichloropropene	ND	0.436	--	ND	1.98	--		2.182
4-Methyl-2-pentanone	ND	0.436	--	ND	1.79	--		2.182
trans-1,3-Dichloropropene	ND	0.436	--	ND	1.98	--		2.182
1,1,2-Trichloroethane	ND	0.436	--	ND	2.38	--		2.182
Toluene	36.0	0.436	--	136	1.64	--		2.182
2-Hexanone	ND	0.436	--	ND	1.79	--		2.182
Dibromochloromethane	ND	0.436	--	ND	3.71	--		2.182
1,2-Dibromoethane	ND	0.436	--	ND	3.35	--		2.182
Tetrachloroethene	ND	0.436	--	ND	2.96	--		2.182
Chlorobenzene	ND	0.436	--	ND	2.01	--		2.182
Ethylbenzene	6.53	0.436	--	28.4	1.89	--		2.182
p/m-Xylene	30.5	0.873	--	132	3.79	--		2.182
Bromoform	ND	0.436	--	ND	4.51	--		2.182



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**Report Date:** 05/20/13

### SAMPLE RESULTS

Lab ID: L1308532-02 D  
 Client ID: SV-4  
 Sample Location: NYC

Date Collected: 05/13/13 14:20  
 Date Received: 05/13/13  
 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	0.436	--	ND	1.86	--		2.182
1,1,2,2-Tetrachloroethane	ND	0.436	--	ND	2.99	--		2.182
o-Xylene	12.1	0.436	--	52.6	1.89	--		2.182
4-Ethyltoluene	5.38	0.436	--	26.4	2.14	--		2.182
1,3,5-Trimethylbenzene	4.39	0.436	--	21.6	2.14	--		2.182
1,2,4-Trimethylbenzene	18.9	0.436	--	92.9	2.14	--		2.182
Benzyl chloride	ND	0.436	--	ND	2.26	--		2.182
1,3-Dichlorobenzene	ND	0.436	--	ND	2.62	--		2.182
1,4-Dichlorobenzene	ND	0.436	--	ND	2.62	--		2.182
1,2-Dichlorobenzene	ND	0.436	--	ND	2.62	--		2.182
1,2,4-Trichlorobenzene	ND	0.436	--	ND	3.24	--		2.182
Hexachlorobutadiene	ND	0.436	--	ND	4.65	--		2.182

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	104		60-140



**Project Name:** 522 532 W 29TH ST  
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**Lab Number:** L1308532  
**Report Date:** 05/20/13

### SAMPLE RESULTS

Lab ID: L1308532-03 D  
 Client ID: SV-2  
 Sample Location: NYC  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 05/16/13 00:44  
 Analyst: MB

Date Collected: 05/13/13 15:02  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	8.69	1.10	--	15.0	1.89	--		2.199
Dichlorodifluoromethane	0.611	0.440	--	3.02	2.18	--		2.199
Chloromethane	0.637	0.440	--	1.32	0.909	--		2.199
Freon-114	ND	0.440	--	ND	3.08	--		2.199
Vinyl chloride	ND	0.440	--	ND	1.12	--		2.199
1,3-Butadiene	1.14	0.440	--	2.52	0.973	--		2.199
Bromomethane	ND	0.440	--	ND	1.71	--		2.199
Chloroethane	ND	0.440	--	ND	1.16	--		2.199
Ethanol	8.44	5.50	--	15.9	10.4	--		2.199
Vinyl bromide	ND	0.440	--	ND	1.92	--		2.199
Acetone	94.1	2.20	--	224	5.23	--		2.199
Trichlorofluoromethane	ND	0.440	--	ND	2.47	--		2.199
Isopropanol	1.50	1.10	--	3.69	2.70	--		2.199
1,1-Dichloroethene	ND	0.440	--	ND	1.74	--		2.199
Methylene chloride	ND	2.20	--	ND	7.64	--		2.199
3-Chloropropene	ND	0.440	--	ND	1.38	--		2.199
Carbon disulfide	1.56	0.440	--	4.86	1.37	--		2.199
Freon-113	ND	0.440	--	ND	3.37	--		2.199
trans-1,2-Dichloroethene	ND	0.440	--	ND	1.74	--		2.199
1,1-Dichloroethane	ND	0.440	--	ND	1.78	--		2.199
Methyl tert butyl ether	22.6	0.440	--	81.5	1.59	--		2.199
Vinyl acetate	ND	0.440	--	ND	1.55	--		2.199
2-Butanone	19.6	0.440	--	57.8	1.30	--		2.199
cis-1,2-Dichloroethene	ND	0.440	--	ND	1.74	--		2.199



**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

### SAMPLE RESULTS

Lab ID: L1308532-03 D  
 Client ID: SV-2  
 Sample Location: NYC

Date Collected: 05/13/13 15:02  
 Date Received: 05/13/13  
 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	1.10	--	ND	3.96	--		2.199
Chloroform	ND	0.440	--	ND	2.15	--		2.199
Tetrahydrofuran	ND	0.440	--	ND	1.30	--		2.199
1,2-Dichloroethane	ND	0.440	--	ND	1.78	--		2.199
n-Hexane	5.14	0.440	--	18.1	1.55	--		2.199
1,1,1-Trichloroethane	2.36	0.440	--	12.9	2.40	--		2.199
Benzene	4.45	0.440	--	14.2	1.41	--		2.199
Carbon tetrachloride	ND	0.440	--	ND	2.77	--		2.199
Cyclohexane	1.21	0.440	--	4.16	1.51	--		2.199
1,2-Dichloropropane	ND	0.440	--	ND	2.03	--		2.199
Bromodichloromethane	ND	0.440	--	ND	2.95	--		2.199
1,4-Dioxane	ND	0.440	--	ND	1.59	--		2.199
Trichloroethene	ND	0.440	--	ND	2.36	--		2.199
2,2,4-Trimethylpentane	ND	0.440	--	ND	2.06	--		2.199
Heptane	4.93	0.440	--	20.2	1.80	--		2.199
cis-1,3-Dichloropropene	ND	0.440	--	ND	2.00	--		2.199
4-Methyl-2-pentanone	1.68	0.440	--	6.88	1.80	--		2.199
trans-1,3-Dichloropropene	ND	0.440	--	ND	2.00	--		2.199
1,1,2-Trichloroethane	ND	0.440	--	ND	2.40	--		2.199
Toluene	40.8	0.440	--	154	1.66	--		2.199
2-Hexanone	1.19	0.440	--	4.88	1.80	--		2.199
Dibromochloromethane	ND	0.440	--	ND	3.75	--		2.199
1,2-Dibromoethane	ND	0.440	--	ND	3.38	--		2.199
Tetrachloroethene	1.51	0.440	--	10.2	2.98	--		2.199
Chlorobenzene	ND	0.440	--	ND	2.03	--		2.199
Ethylbenzene	13.2	0.440	--	57.3	1.91	--		2.199
p/m-Xylene	59.6	0.879	--	259	3.82	--		2.199
Bromoform	ND	0.440	--	ND	4.55	--		2.199



**Project Name:** 522 532 W 29TH ST**Lab Number:** L1308532**Project Number:** 41.0122122.00**Report Date:** 05/20/13**SAMPLE RESULTS**

Lab ID: L1308532-03 D

Date Collected: 05/13/13 15:02

Client ID: SV-2

Date Received: 05/13/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	0.684	0.440	--	2.91	1.87	--		2.199
1,1,2,2-Tetrachloroethane	ND	0.440	--	ND	3.02	--		2.199
o-Xylene	22.0	0.440	--	95.6	1.91	--		2.199
4-Ethyltoluene	9.73	0.440	--	47.8	2.16	--		2.199
1,3,5-Trimethylbenzene	7.60	0.440	--	37.4	2.16	--		2.199
1,2,4-Trimethylbenzene	30.4	0.440	--	149	2.16	--		2.199
Benzyl chloride	ND	0.440	--	ND	2.28	--		2.199
1,3-Dichlorobenzene	ND	0.440	--	ND	2.65	--		2.199
1,4-Dichlorobenzene	ND	0.440	--	ND	2.65	--		2.199
1,2-Dichlorobenzene	ND	0.440	--	ND	2.65	--		2.199
1,2,4-Trichlorobenzene	ND	0.440	--	ND	3.27	--		2.199
Hexachlorobutadiene	ND	0.440	--	ND	4.69	--		2.199

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	102		60-140



**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

### SAMPLE RESULTS

Lab ID: L1308532-04 D  
 Client ID: SV-3  
 Sample Location: NYC  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 05/16/13 01:16  
 Analyst: MB

Date Collected: 05/13/13 16:17  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	13.9	1.11	--	23.9	1.91	--		2.215
Dichlorodifluoromethane	0.547	0.443	--	2.70	2.19	--		2.215
Chloromethane	ND	0.443	--	ND	0.915	--		2.215
Freon-114	ND	0.443	--	ND	3.10	--		2.215
Vinyl chloride	0.614	0.443	--	1.57	1.13	--		2.215
1,3-Butadiene	0.689	0.443	--	1.52	0.980	--		2.215
Bromomethane	ND	0.443	--	ND	1.72	--		2.215
Chloroethane	ND	0.443	--	ND	1.17	--		2.215
Ethanol	ND	5.54	--	ND	10.4	--		2.215
Vinyl bromide	ND	0.443	--	ND	1.94	--		2.215
Acetone	46.8	2.22	--	111	5.27	--		2.215
Trichlorofluoromethane	ND	0.443	--	ND	2.49	--		2.215
Isopropanol	ND	1.11	--	ND	2.73	--		2.215
1,1-Dichloroethene	ND	0.443	--	ND	1.76	--		2.215
Methylene chloride	ND	2.22	--	ND	7.71	--		2.215
3-Chloropropene	ND	0.443	--	ND	1.39	--		2.215
Carbon disulfide	5.09	0.443	--	15.9	1.38	--		2.215
Freon-113	ND	0.443	--	ND	3.40	--		2.215
trans-1,2-Dichloroethene	ND	0.443	--	ND	1.76	--		2.215
1,1-Dichloroethane	ND	0.443	--	ND	1.79	--		2.215
Methyl tert butyl ether	0.921	0.443	--	3.32	1.60	--		2.215
Vinyl acetate	ND	0.443	--	ND	1.56	--		2.215
2-Butanone	11.9	0.443	--	35.1	1.31	--		2.215
cis-1,2-Dichloroethene	ND	0.443	--	ND	1.76	--		2.215



**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

**SAMPLE RESULTS**

Lab ID: L1308532-04 D  
 Client ID: SV-3  
 Sample Location: NYC

Date Collected: 05/13/13 16:17  
 Date Received: 05/13/13  
 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	1.11	--	ND	4.00	--		2.215
Chloroform	16.6	0.443	--	81.1	2.16	--		2.215
Tetrahydrofuran	ND	0.443	--	ND	1.31	--		2.215
1,2-Dichloroethane	ND	0.443	--	ND	1.79	--		2.215
n-Hexane	8.88	0.443	--	31.3	1.56	--		2.215
1,1,1-Trichloroethane	ND	0.443	--	ND	2.42	--		2.215
Benzene	2.81	0.443	--	8.98	1.42	--		2.215
Carbon tetrachloride	ND	0.443	--	ND	2.79	--		2.215
Cyclohexane	1.76	0.443	--	6.06	1.52	--		2.215
1,2-Dichloropropane	ND	0.443	--	ND	2.05	--		2.215
Bromodichloromethane	0.895	0.443	--	6.00	2.97	--		2.215
1,4-Dioxane	ND	0.443	--	ND	1.60	--		2.215
Trichloroethene	ND	0.443	--	ND	2.38	--		2.215
2,2,4-Trimethylpentane	17.1	0.443	--	79.9	2.07	--		2.215
Heptane	5.51	0.443	--	22.6	1.82	--		2.215
cis-1,3-Dichloropropene	ND	0.443	--	ND	2.01	--		2.215
4-Methyl-2-pentanone	1.33	0.443	--	5.45	1.82	--		2.215
trans-1,3-Dichloropropene	ND	0.443	--	ND	2.01	--		2.215
1,1,2-Trichloroethane	ND	0.443	--	ND	2.42	--		2.215
Toluene	21.2	0.443	--	79.9	1.67	--		2.215
2-Hexanone	ND	0.443	--	ND	1.82	--		2.215
Dibromochloromethane	ND	0.443	--	ND	3.77	--		2.215
1,2-Dibromoethane	ND	0.443	--	ND	3.40	--		2.215
Tetrachloroethene	ND	0.443	--	ND	3.00	--		2.215
Chlorobenzene	ND	0.443	--	ND	2.04	--		2.215
Ethylbenzene	8.06	0.443	--	35.0	1.92	--		2.215
p/m-Xylene	36.6	0.886	--	159	3.85	--		2.215
Bromoform	ND	0.443	--	ND	4.58	--		2.215



**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

### SAMPLE RESULTS

Lab ID: L1308532-04 D  
 Client ID: SV-3  
 Sample Location: NYC

Date Collected: 05/13/13 16:17  
 Date Received: 05/13/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	0.452	0.443	--	1.92	1.89	--		2.215
1,1,2,2-Tetrachloroethane	ND	0.443	--	ND	3.04	--		2.215
o-Xylene	13.6	0.443	--	59.1	1.92	--		2.215
4-Ethyltoluene	5.85	0.443	--	28.8	2.18	--		2.215
1,3,5-Trimethylbenzene	4.89	0.443	--	24.0	2.18	--		2.215
1,2,4-Trimethylbenzene	19.6	0.443	--	96.4	2.18	--		2.215
Benzyl chloride	ND	0.443	--	ND	2.29	--		2.215
1,3-Dichlorobenzene	ND	0.443	--	ND	2.66	--		2.215
1,4-Dichlorobenzene	ND	0.443	--	ND	2.66	--		2.215
1,2-Dichlorobenzene	ND	0.443	--	ND	2.66	--		2.215
1,2,4-Trichlorobenzene	ND	0.443	--	ND	3.29	--		2.215
Hexachlorobutadiene	ND	0.443	--	ND	4.73	--		2.215

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	101		60-140



Project Name: 522 532 W 29TH ST

Lab Number: L1308532

Project Number: 41.0122122.00

Report Date: 05/20/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/15/13 14:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG608274-4								
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: 522 532 W 29TH ST

Lab Number: L1308532

Project Number: 41.0122122.00

Report Date: 05/20/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/15/13 14:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG608274-4								
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: 522 532 W 29TH ST

Lab Number: L1308532

Project Number: 41.0122122.00

Report Date: 05/20/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/15/13 14:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG608274-4								
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-Trimethylbenzene	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:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG608274-3									
Chlorodifluoromethane	98	-	-	-	70-130	-	-	-	70-130
Propylene	113	-	-	-	70-130	-	-	-	70-130
Propane	78	-	-	-	70-130	-	-	-	70-130
Dichlorodifluoromethane	111	-	-	-	70-130	-	-	-	70-130
Chloromethane	97	-	-	-	70-130	-	-	-	70-130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	104	-	-	-	70-130	-	-	-	70-130
Methanol	90	-	-	-	70-130	-	-	-	70-130
Vinyl chloride	99	-	-	-	70-130	-	-	-	70-130
1,3-Butadiene	98	-	-	-	70-130	-	-	-	70-130
Butane	88	-	-	-	70-130	-	-	-	70-130
Bromomethane	102	-	-	-	70-130	-	-	-	70-130
Chloroethane	97	-	-	-	70-130	-	-	-	70-130
Ethyl Alcohol	91	-	-	-	70-130	-	-	-	70-130
Dichlorofluoromethane	93	-	-	-	70-130	-	-	-	70-130
Vinyl bromide	103	-	-	-	70-130	-	-	-	70-130
Acrolein	84	-	-	-	70-130	-	-	-	70-130
Acetone	110	-	-	-	70-130	-	-	-	70-130
Acetonitrile	94	-	-	-	70-130	-	-	-	70-130
Trichlorofluoromethane	117	-	-	-	70-130	-	-	-	70-130
iso-Propyl Alcohol	100	-	-	-	70-130	-	-	-	70-130
Acrylonitrile	92	-	-	-	70-130	-	-	-	70-130



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG608274-3									
Pentane	89	-	-	-	70-130	-	-	-	-
Ethyl ether	89	-	-	-	70-130	-	-	-	-
1,1-Dichloroethene	105	-	-	-	70-130	-	-	-	-
tert-Butyl Alcohol	95	-	-	-	70-130	-	-	-	-
Methylene chloride	106	-	-	-	70-130	-	-	-	-
3-Chloropropene	113	-	-	-	70-130	-	-	-	-
Carbon disulfide	98	-	-	-	70-130	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	112	-	-	-	70-130	-	-	-	-
trans-1,2-Dichloroethane	91	-	-	-	70-130	-	-	-	-
1,1-Dichloroethane	100	-	-	-	70-130	-	-	-	-
Methyl tert butyl ether	93	-	-	-	70-130	-	-	-	-
Vinyl acetate	103	-	-	-	70-130	-	-	-	-
2-Butanone	95	-	-	-	70-130	-	-	-	-
cis-1,2-Dichloroethene	114	-	-	-	70-130	-	-	-	-
Ethyl Acetate	90	-	-	-	70-130	-	-	-	-
Chloroform	111	-	-	-	70-130	-	-	-	-
Tetrahydrofuran	86	-	-	-	70-130	-	-	-	-
2,2-Dichloropropane	96	-	-	-	70-130	-	-	-	-
1,2-Dichloroethane	104	-	-	-	70-130	-	-	-	-
n-Hexane	100	-	-	-	70-130	-	-	-	-
Isopropyl Ether	91	-	-	-	70-130	-	-	-	-



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG608274-3									
Ethyl-Tert-Butyl-Ether	94	-	-	-	70-130	-	-	-	-
1,1,1-Trichloroethane	102	-	-	-	70-130	-	-	-	-
1,1-Dichloropropene	103	-	-	-	70-130	-	-	-	-
Benzene	97	-	-	-	70-130	-	-	-	-
Carbon tetrachloride	115	-	-	-	70-130	-	-	-	-
Cyclohexane	94	-	-	-	70-130	-	-	-	-
Tertiary-Amyl Methyl Ether	90	-	-	-	70-130	-	-	-	-
Dibromomethane	105	-	-	-	70-130	-	-	-	-
1,2-Dichloropropane	102	-	-	-	70-130	-	-	-	-
Bromodichloromethane	106	-	-	-	70-130	-	-	-	-
1,4-Dioxane	94	-	-	-	70-130	-	-	-	-
Trichloroethene	111	-	-	-	70-130	-	-	-	-
2,2,4-Trimethylpentane	99	-	-	-	70-130	-	-	-	-
Methyl methacrylate	130	-	-	-	70-130	-	-	-	-
Heptane	106	-	-	-	70-130	-	-	-	-
cis-1,3-Dichloropropene	106	-	-	-	70-130	-	-	-	-
4-Methyl-2-pentanone	99	-	-	-	70-130	-	-	-	-
trans-1,3-Dichloropropene	92	-	-	-	70-130	-	-	-	-
1,1,2-Trichloroethane	108	-	-	-	70-130	-	-	-	-
Toluene	103	-	-	-	70-130	-	-	-	-
1,3-Dichloropropane	99	-	-	-	70-130	-	-	-	-



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG608274-3									
2-Hexanone	95	-	-	-	70-130	-	-	-	-
Dibromochloromethane	107	-	-	-	70-130	-	-	-	-
1,2-Dibromoethane	115	-	-	-	70-130	-	-	-	-
Butyl Acetate	80	-	-	-	70-130	-	-	-	-
Octane	94	-	-	-	70-130	-	-	-	-
Tetrachloroethene	115	-	-	-	70-130	-	-	-	-
1,1,1,2-Tetrachloroethane	110	-	-	-	70-130	-	-	-	-
Chlorobenzene	114	-	-	-	70-130	-	-	-	-
Ethylbenzene	109	-	-	-	70-130	-	-	-	-
p/m-Xylene	110	-	-	-	70-130	-	-	-	-
Bromoform	106	-	-	-	70-130	-	-	-	-
Styrene	107	-	-	-	70-130	-	-	-	-
1,1,2,2-Tetrachloroethane	115	-	-	-	70-130	-	-	-	-
o-Xylene	112	-	-	-	70-130	-	-	-	-
1,2,3-Trichloropropane	101	-	-	-	70-130	-	-	-	-
Nonane (C9)	93	-	-	-	70-130	-	-	-	-
Isopropylbenzene	108	-	-	-	70-130	-	-	-	-
Bromobenzene	103	-	-	-	70-130	-	-	-	-
o-Chlorotoluene	109	-	-	-	70-130	-	-	-	-
n-Propylbenzene	107	-	-	-	70-130	-	-	-	-
p-Chlorotoluene	105	-	-	-	70-130	-	-	-	-



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG608274-3									
4-Ethyltoluene	98	-	-	-	70-130	-	-	-	-
1,3,5-Trimethylbenzene	113	-	-	-	70-130	-	-	-	-
tert-Butylbenzene	109	-	-	-	70-130	-	-	-	-
1,2,4-Trimethylbenzene	116	-	-	-	70-130	-	-	-	-
Decane (C10)	102	-	-	-	70-130	-	-	-	-
Benzyl chloride	83	-	-	-	70-130	-	-	-	-
1,3-Dichlorobenzene	118	-	-	-	70-130	-	-	-	-
1,4-Dichlorobenzene	118	-	-	-	70-130	-	-	-	-
sec-Butylbenzene	107	-	-	-	70-130	-	-	-	-
p-Isopropyltoluene	103	-	-	-	70-130	-	-	-	-
1,2-Dichlorobenzene	116	-	-	-	70-130	-	-	-	-
n-Butylbenzene	112	-	-	-	70-130	-	-	-	-
1,2-Dibromo-3-chloropropane	114	-	-	-	70-130	-	-	-	-
Undecane	110	-	-	-	70-130	-	-	-	-
Dodecane (C12)	160	Q	-	-	70-130	-	-	-	-
1,2,4-Trichlorobenzene	126	-	-	-	70-130	-	-	-	-
Naphthalene	118	-	-	-	70-130	-	-	-	-
1,2,3-Trichlorobenzene	123	-	-	-	70-130	-	-	-	-
Hexachlorobutadiene	129	-	-	-	70-130	-	-	-	-



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG608274-5 QC Sample: L1308564-01 Client ID: DUP Sample						
Propylene	ND	0.604	ppbV	NC		25
Dichlorodifluoromethane	0.525	0.583	ppbV	10		25
Chloromethane	0.620	0.645	ppbV	4		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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	124	130	ppbV	5		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	35.0	35.7	ppbV	2		25
Trichlorofluoromethane	0.270	0.305	ppbV	12		25
iso-Propyl Alcohol	1.28	1.28	ppbV	0		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG608274-5 QC Sample: L1308564-01 Client ID: DUP Sample</b>					
Vinyl acetate	ND	ND	ppbV	NC	25
2-Butanone	1.84	1.85	ppbV	1	25
Ethyl Acetate	1.15	1.21	ppbV	5	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	16.3	16.7	ppbV	2	25
Benzene	0.454	0.464	ppbV	2	25
Cyclohexane	0.634	0.634	ppbV	0	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	0.635	0.664	ppbV	4	25
Heptane	0.874	0.997	ppbV	13	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	0.513	0.510	ppbV	1	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	1.95	2.15	ppbV	10	25



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG608274-5 QC Sample: L1308564-01 Client ID: DUP Sample</b>					
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	0.455	0.503	ppbV	10	25
p/m-Xylene	1.66	1.85	ppbV	11	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	0.650	0.700	ppbV	7	25
4-Ethyltoluene	0.947	1.07	ppbV	12	25
1,3,5-Trimethylbenzene	1.08	1.22	ppbV	12	25
1,2,4-Trimethylbenzene	2.96	3.28	ppbV	10	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



Serial\_No:05201314:19  
L1308532

Lab Number: L1308532

Report Date: 05/20/13

Project Name: 522 532 W 29TH ST

Project Number: 41.0122122.00

### 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
L1308532-01	SV-6	0523	SV200	05/10/13	88353		-	-	-	Pass	212	221	4
L1308532-01	SV-6	909	1.0L Can	05/10/13	88353	L1307812-02	Pass	-28.2	-1.0	-	-	-	-
L1308532-02	SV-4	0570	SV200	05/10/13	88353		-	-	-	Pass	215	217	1
L1308532-02	SV-4	843	1.0L Can	05/10/13	88353	L1307812-02	Pass	-28.1	0.0	-	-	-	-
L1308532-03	SV-2	0517	SV200	05/10/13	88353		-	-	-	Pass	215	223	4
L1308532-03	SV-2	844	1.0L Can	05/10/13	88353	L1307812-02	Pass	-28.1	-0.3	-	-	-	-
L1308532-04	SV-3	0568	SV200	05/10/13	88353		-	-	-	Pass	211	219	4
L1308532-04	SV-3	1054	1.0L Can	05/10/13	88353	L1307812-02	Pass	-28.0	-0.5	-	-	-	-

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1307812  
**Report Date:** 05/20/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 05/03/13 17:04  
 Analyst: RY

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 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
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:** L1307812  
**Report Date:** 05/20/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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:** L1307812  
**Report Date:** 05/20/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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:** L1307812  
**Report Date:** 05/20/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-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-Trimethylbenzene	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  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1307812  
**Report Date:** 05/20/13

### Air Canister Certification Results

Lab ID: L1307812-02 Date Collected: 05/01/13 15:17  
 Client ID: CAN 846 SHELF 14 Date Received: 05/02/13  
 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	86		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1307812  
**Report Date:** 05/20/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/03/13 17:04  
 Analyst: RY

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 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:** L1307812  
**Report Date:** 05/20/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 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-Trimethylbenzene	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:** L1307812  
**Report Date:** 05/20/13

### Air Canister Certification Results

Lab ID: L1307812-02 Date Collected: 05/01/13 15:17  
 Client ID: CAN 846 SHELF 14 Date Received: 05/02/13  
 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	85		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	93		60-140

Project Name: 522 532 W 29TH ST

Lab Number: L1308532

Project Number: 41.0122122.00

Report Date: 05/20/13

**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 Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308532-01A	Canister - 1 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1308532-02A	Canister - 1 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1308532-03A	Canister - 1 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1308532-04A	Canister - 1 Liter	N/A	N/A		Y	Absent	TO15-LL(30)

\*Values in parentheses indicate holding time in days

**Project Name:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

## 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:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

**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:** 522 532 W 29TH ST  
**Project Number:** 41.0122122.00

**Lab Number:** L1308532  
**Report Date:** 05/20/13

## 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.

ALPHA Job #: **L/30853Z**

Date Rec'd in Lab:

Page 1 OF 2

**AIR ANALYSIS**  
**CHAIN OF CUSTODY**  
 320 Forbes Blvd, Mansfield, MA 02048  
 TEL: 508-822-9300 FAX: 508-822-3288

**Billing Information**

Report Information - Data Deliverables

Project Information

Same as Client info PO #:

FAX  
 ADEX

Project Name: **522 532 waqthst**

Criteria Checker:

Other Formats:

Project Location: **NYC**

Regulatory Requirements/Report Limits

Report to: (if different than Project Manager)

Project #: **41.0122122.00**

State/Fed Program

Additional Deliverables:

Project Manager: **James Bellevue**

Criteria

Turn-Around Time

ALPHA Quote #:

Barometric Pressure = 30.06 hg

Standard  
 RUSH (only confirmed if pre-approved)

Date Due: Time:

ANALYSIS

Other Project Specific Requirements/Comments:

Time: **James.Bellevue@alpha**

TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4/TO-10	Sample Comments (i.e. PID)
X	X	X	X				AD=2.2
							AD=0.2
							PID=0.6
							PID=0.2

**All Columns Below Must Be Filled Out**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	Container Type	Date/Time
		Date	Start Time	End Time	Initial Vacuum												
-1	SV-00	5/13/13	10:30	10:35	29.37	1.57	SV	ES	1L	909	0523	CS	X				
-2	SV-4	5/13/13	14:14	14:30	29.57	0.98	SV	ES	1L	843	0570	CS	X				
-3	SV-2	5/13/13	14:56	15:02	29.36	1.10	SV	ES	1L	844	0517	CS	X				
-4	SV-3	5/13/13	16:12	16:17	29.5	1.43	SV	ES	1L	1054	0508	CS	X				

**\* SAMPLE MATRIX CODES**  
 AA = Ambient Air (Indoor/Outdoor)  
 SV = Soil Vapor/Landfill Gas/SVE  
 Other = Please Specify

Relinquished By: *[Signature]* Date/Time: **5/13/13 16:30**

Received By: *[Signature]* Date/Time: **5/13/13 11:30**

*[Signature]* Date/Time: **5/13/13 1900**

*[Signature]* Date/Time: **5/13/13 23:15**

*[Signature]* Date/Time: **5/14/13 04:00**

*[Signature]* Date/Time: **5/14/13 04:00**



## ANALYTICAL REPORT

Lab Number:	L1308604
Client:	GZA GeoEnvironmental, Inc. 104 West 29th Street, 10th Floor New York, NY 10001
ATTN:	James Bellew
Phone:	(212) 594-8140
Project Name:	522-532 W 29TH ST
Project Number:	41.0162122.00
Report Date:	05/21/13

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.

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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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1308604-01	SV-1	NYC	05/14/13 11:11

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

### 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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on May 10, 2013. The canister certification results are provided as an addendum.

Sample L1308604-01: Prior to sample analysis, the canister was pressurized with UHP Nitrogen due to canister size. The pressurization resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

Sample L1308604-01 results for Propylene and 4-Methyl-2-Pentanone should be considered estimated due to co-elution with a non-target peaks.

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: 05/21/13

**AIR**

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

### SAMPLE RESULTS

Lab ID: L1308604-01 D  
 Client ID: SV-1  
 Sample Location: NYC  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 05/16/13 01:48  
 Analyst: MB

Date Collected: 05/14/13 11:11  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	3.36	1.07	--	5.78	1.84	--		2.136
Dichlorodifluoromethane	0.585	0.427	--	2.89	2.11	--		2.136
Chloromethane	ND	0.427	--	ND	0.882	--		2.136
Freon-114	ND	0.427	--	ND	2.98	--		2.136
Vinyl chloride	ND	0.427	--	ND	1.09	--		2.136
1,3-Butadiene	0.647	0.427	--	1.43	0.945	--		2.136
Bromomethane	ND	0.427	--	ND	1.66	--		2.136
Chloroethane	ND	0.427	--	ND	1.13	--		2.136
Ethanol	ND	5.34	--	ND	10.1	--		2.136
Vinyl bromide	ND	0.427	--	ND	1.87	--		2.136
Acetone	26.1	2.14	--	62.0	5.08	--		2.136
Trichlorofluoromethane	ND	0.427	--	ND	2.40	--		2.136
Isopropanol	ND	1.07	--	ND	2.63	--		2.136
1,1-Dichloroethene	ND	0.427	--	ND	1.69	--		2.136
Methylene chloride	2.86	2.14	--	9.94	7.43	--		2.136
3-Chloropropene	ND	0.427	--	ND	1.34	--		2.136
Carbon disulfide	4.87	0.427	--	15.2	1.33	--		2.136
Freon-113	ND	0.427	--	ND	3.27	--		2.136
trans-1,2-Dichloroethene	ND	0.427	--	ND	1.69	--		2.136
1,1-Dichloroethane	ND	0.427	--	ND	1.73	--		2.136
Methyl tert butyl ether	ND	0.427	--	ND	1.54	--		2.136
Vinyl acetate	ND	0.427	--	ND	1.50	--		2.136
2-Butanone	1.76	0.427	--	5.19	1.26	--		2.136
cis-1,2-Dichloroethene	ND	0.427	--	ND	1.69	--		2.136



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

### SAMPLE RESULTS

Lab ID: L1308604-01 D  
 Client ID: SV-1  
 Sample Location: NYC

Date Collected: 05/14/13 11:11  
 Date Received: 05/14/13  
 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	1.07	--	ND	3.86	--		2.136
Chloroform	2.34	0.427	--	11.4	2.09	--		2.136
Tetrahydrofuran	ND	0.427	--	ND	1.26	--		2.136
1,2-Dichloroethane	ND	0.427	--	ND	1.73	--		2.136
n-Hexane	3.03	0.427	--	10.7	1.50	--		2.136
1,1,1-Trichloroethane	ND	0.427	--	ND	2.33	--		2.136
Benzene	2.55	0.427	--	8.15	1.36	--		2.136
Carbon tetrachloride	ND	0.427	--	ND	2.69	--		2.136
Cyclohexane	2.51	0.427	--	8.64	1.47	--		2.136
1,2-Dichloropropane	ND	0.427	--	ND	1.97	--		2.136
Bromodichloromethane	ND	0.427	--	ND	2.86	--		2.136
1,4-Dioxane	ND	0.427	--	ND	1.54	--		2.136
Trichloroethene	ND	0.427	--	ND	2.29	--		2.136
2,2,4-Trimethylpentane	0.478	0.427	--	2.23	1.99	--		2.136
Heptane	3.38	0.427	--	13.9	1.75	--		2.136
cis-1,3-Dichloropropene	ND	0.427	--	ND	1.94	--		2.136
4-Methyl-2-pentanone	0.431	0.427	--	1.77	1.75	--		2.136
trans-1,3-Dichloropropene	ND	0.427	--	ND	1.94	--		2.136
1,1,2-Trichloroethane	ND	0.427	--	ND	2.33	--		2.136
Toluene	65.0	0.427	--	245	1.61	--		2.136
2-Hexanone	ND	0.427	--	ND	1.75	--		2.136
Dibromochloromethane	ND	0.427	--	ND	3.64	--		2.136
1,2-Dibromoethane	ND	0.427	--	ND	3.28	--		2.136
Tetrachloroethene	ND	0.427	--	ND	2.90	--		2.136
Chlorobenzene	ND	0.427	--	ND	1.97	--		2.136
Ethylbenzene	12.6	0.427	--	54.7	1.85	--		2.136
p/m-Xylene	52.4	0.854	--	228	3.71	--		2.136
Bromoform	ND	0.427	--	ND	4.41	--		2.136



**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308604**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308604-01 D

Date Collected: 05/14/13 11:11

Client ID: SV-1

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	0.583	0.427	--	2.48	1.82	--		2.136
1,1,2,2-Tetrachloroethane	ND	0.427	--	ND	2.93	--		2.136
o-Xylene	19.5	0.427	--	84.7	1.85	--		2.136
4-Ethyltoluene	7.50	0.427	--	36.9	2.10	--		2.136
1,3,5-Trimethylbenzene	6.38	0.427	--	31.4	2.10	--		2.136
1,2,4-Trimethylbenzene	25.5	0.427	--	125	2.10	--		2.136
Benzyl chloride	ND	0.427	--	ND	2.21	--		2.136
1,3-Dichlorobenzene	ND	0.427	--	ND	2.57	--		2.136
1,4-Dichlorobenzene	ND	0.427	--	ND	2.57	--		2.136
1,2-Dichlorobenzene	ND	0.427	--	ND	2.57	--		2.136
1,2,4-Trichlorobenzene	ND	0.427	--	ND	3.17	--		2.136
Hexachlorobutadiene	ND	0.427	--	ND	4.55	--		2.136

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	110		60-140



Project Name: 522-532 W 29TH ST

Lab Number: L1308604

Project Number: 41.0162122.00

Report Date: 05/21/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/15/13 14:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG608274-4								
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: 522-532 W 29TH ST

Lab Number: L1308604

Project Number: 41.0162122.00

Report Date: 05/21/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/15/13 14:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG608274-4								
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: 522-532 W 29TH ST

Lab Number: L1308604

Project Number: 41.0162122.00

Report Date: 05/21/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/15/13 14:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG608274-4								
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-Trimethylbenzene	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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG608274-3									
Chlorodifluoromethane	98	-	-	-	70-130	-	-	-	70-130
Propylene	113	-	-	-	70-130	-	-	-	70-130
Propane	78	-	-	-	70-130	-	-	-	70-130
Dichlorodifluoromethane	111	-	-	-	70-130	-	-	-	70-130
Chloromethane	97	-	-	-	70-130	-	-	-	70-130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	104	-	-	-	70-130	-	-	-	70-130
Methanol	90	-	-	-	70-130	-	-	-	70-130
Vinyl chloride	99	-	-	-	70-130	-	-	-	70-130
1,3-Butadiene	98	-	-	-	70-130	-	-	-	70-130
Butane	88	-	-	-	70-130	-	-	-	70-130
Bromomethane	102	-	-	-	70-130	-	-	-	70-130
Chloroethane	97	-	-	-	70-130	-	-	-	70-130
Ethyl Alcohol	91	-	-	-	70-130	-	-	-	70-130
Dichlorofluoromethane	93	-	-	-	70-130	-	-	-	70-130
Vinyl bromide	103	-	-	-	70-130	-	-	-	70-130
Acrolein	84	-	-	-	70-130	-	-	-	70-130
Acetone	110	-	-	-	70-130	-	-	-	70-130
Acetonitrile	94	-	-	-	70-130	-	-	-	70-130
Trichlorofluoromethane	117	-	-	-	70-130	-	-	-	70-130
iso-Propyl Alcohol	100	-	-	-	70-130	-	-	-	70-130
Acrylonitrile	92	-	-	-	70-130	-	-	-	70-130



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG608274-3									
Pentane	89	-	-	-	70-130	-	-	-	70-130
Ethyl ether	89	-	-	-	70-130	-	-	-	70-130
1,1-Dichloroethene	105	-	-	-	70-130	-	-	-	70-130
tert-Butyl Alcohol	95	-	-	-	70-130	-	-	-	70-130
Methylene chloride	106	-	-	-	70-130	-	-	-	70-130
3-Chloropropene	113	-	-	-	70-130	-	-	-	70-130
Carbon disulfide	98	-	-	-	70-130	-	-	-	70-130
1,1,2-Trichloro-1,2,2-Trifluoroethane	112	-	-	-	70-130	-	-	-	70-130
trans-1,2-Dichloroethene	91	-	-	-	70-130	-	-	-	70-130
1,1-Dichloroethane	100	-	-	-	70-130	-	-	-	70-130
Methyl tert butyl ether	93	-	-	-	70-130	-	-	-	70-130
Vinyl acetate	103	-	-	-	70-130	-	-	-	70-130
2-Butanone	95	-	-	-	70-130	-	-	-	70-130
cis-1,2-Dichloroethene	114	-	-	-	70-130	-	-	-	70-130
Ethyl Acetate	90	-	-	-	70-130	-	-	-	70-130
Chloroform	111	-	-	-	70-130	-	-	-	70-130
Tetrahydrofuran	86	-	-	-	70-130	-	-	-	70-130
2,2-Dichloropropane	96	-	-	-	70-130	-	-	-	70-130
1,2-Dichloroethane	104	-	-	-	70-130	-	-	-	70-130
n-Hexane	100	-	-	-	70-130	-	-	-	70-130
Isopropyl Ether	91	-	-	-	70-130	-	-	-	70-130



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG608274-3									
Ethyl-Tert-Butyl-Ether	94	-	-	-	70-130	-	-	-	70-130
1,1,1-Trichloroethane	102	-	-	-	70-130	-	-	-	70-130
1,1-Dichloropropene	103	-	-	-	70-130	-	-	-	70-130
Benzene	97	-	-	-	70-130	-	-	-	70-130
Carbon tetrachloride	115	-	-	-	70-130	-	-	-	70-130
Cyclohexane	94	-	-	-	70-130	-	-	-	70-130
Tertiary-Amyl Methyl Ether	90	-	-	-	70-130	-	-	-	70-130
Dibromomethane	105	-	-	-	70-130	-	-	-	70-130
1,2-Dichloropropane	102	-	-	-	70-130	-	-	-	70-130
Bromodichloromethane	106	-	-	-	70-130	-	-	-	70-130
1,4-Dioxane	94	-	-	-	70-130	-	-	-	70-130
Trichloroethene	111	-	-	-	70-130	-	-	-	70-130
2,2,4-Trimethylpentane	99	-	-	-	70-130	-	-	-	70-130
Methyl methacrylate	130	-	-	-	70-130	-	-	-	70-130
Heptane	106	-	-	-	70-130	-	-	-	70-130
cis-1,3-Dichloropropene	106	-	-	-	70-130	-	-	-	70-130
4-Methyl-2-pentanone	99	-	-	-	70-130	-	-	-	70-130
trans-1,3-Dichloropropene	92	-	-	-	70-130	-	-	-	70-130
1,1,2-Trichloroethane	108	-	-	-	70-130	-	-	-	70-130
Toluene	103	-	-	-	70-130	-	-	-	70-130
1,3-Dichloropropane	99	-	-	-	70-130	-	-	-	70-130



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG608274-3									
2-Hexanone	95	-	-	-	70-130	-	-	-	70-130
Dibromochloromethane	107	-	-	-	70-130	-	-	-	70-130
1,2-Dibromoethane	115	-	-	-	70-130	-	-	-	70-130
Butyl Acetate	80	-	-	-	70-130	-	-	-	70-130
Octane	94	-	-	-	70-130	-	-	-	70-130
Tetrachloroethene	115	-	-	-	70-130	-	-	-	70-130
1,1,1,2-Tetrachloroethane	110	-	-	-	70-130	-	-	-	70-130
Chlorobenzene	114	-	-	-	70-130	-	-	-	70-130
Ethylbenzene	109	-	-	-	70-130	-	-	-	70-130
p/m-Xylene	110	-	-	-	70-130	-	-	-	70-130
Bromoform	106	-	-	-	70-130	-	-	-	70-130
Styrene	107	-	-	-	70-130	-	-	-	70-130
1,1,2,2-Tetrachloroethane	115	-	-	-	70-130	-	-	-	70-130
o-Xylene	112	-	-	-	70-130	-	-	-	70-130
1,2,3-Trichloropropane	101	-	-	-	70-130	-	-	-	70-130
Nonane (C9)	93	-	-	-	70-130	-	-	-	70-130
Isopropylbenzene	108	-	-	-	70-130	-	-	-	70-130
Bromobenzene	103	-	-	-	70-130	-	-	-	70-130
o-Chlorotoluene	109	-	-	-	70-130	-	-	-	70-130
n-Propylbenzene	107	-	-	-	70-130	-	-	-	70-130
p-Chlorotoluene	105	-	-	-	70-130	-	-	-	70-130



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG608274-3									
4-Ethyltoluene	98		-		70-130		-		
1,3,5-Trimethylbenzene	113		-		70-130		-		
tert-Butylbenzene	109		-		70-130		-		
1,2,4-Trimethylbenzene	116		-		70-130		-		
Decane (C10)	102		-		70-130		-		
Benzyl chloride	83		-		70-130		-		
1,3-Dichlorobenzene	118		-		70-130		-		
1,4-Dichlorobenzene	118		-		70-130		-		
sec-Butylbenzene	107		-		70-130		-		
p-Isopropyltoluene	103		-		70-130		-		
1,2-Dichlorobenzene	116		-		70-130		-		
n-Butylbenzene	112		-		70-130		-		
1,2-Dibromo-3-chloropropane	114		-		70-130		-		
Undecane	110		-		70-130		-		
Dodecane (C12)	160	Q	-		70-130		-		
1,2,4-Trichlorobenzene	126		-		70-130		-		
Naphthalene	118		-		70-130		-		
1,2,3-Trichlorobenzene	123		-		70-130		-		
Hexachlorobutadiene	129		-		70-130		-		



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
<b>Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG608274-5 QC Sample: L1308564-01 Client ID: DUP Sample</b>						
Propylene	ND	0.604	ppbV	NC		25
Dichlorodifluoromethane	0.525	0.583	ppbV	10		25
Chloromethane	0.620	0.645	ppbV	4		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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	124	130	ppbV	5		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	35.0	35.7	ppbV	2		25
Trichlorofluoromethane	0.270	0.305	ppbV	12		25
iso-Propyl Alcohol	1.28	1.28	ppbV	0		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG608274-5 QC Sample: L1308564-01 Client ID: DUP Sample</b>					
Vinyl acetate	ND	ND	ppbV	NC	25
2-Butanone	1.84	1.85	ppbV	1	25
Ethyl Acetate	1.15	1.21	ppbV	5	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	16.3	16.7	ppbV	2	25
Benzene	0.454	0.464	ppbV	2	25
Cyclohexane	0.634	0.634	ppbV	0	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	0.635	0.664	ppbV	4	25
Heptane	0.874	0.997	ppbV	13	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	0.513	0.510	ppbV	1	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	1.95	2.15	ppbV	10	25



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG608274-5 QC Sample: L1308564-01 Client ID: DUP Sample</b>					
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	0.455	0.503	ppbV	10	25
p/m-Xylene	1.66	1.85	ppbV	11	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	0.650	0.700	ppbV	7	25
4-Ethyltoluene	0.947	1.07	ppbV	12	25
1,3,5-Trimethylbenzene	1.08	1.22	ppbV	12	25
1,2,4-Trimethylbenzene	2.96	3.28	ppbV	10	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:** 522-532 W 29TH ST

**Project Number:** 41.0162122.00

**Lab Number:** L1308604

**Report Date:** 05/21/13

Serial\_No:05211315:50

**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
L1308604-01	SV-1	0573	SV200	05/10/13	88353		-	-	-	Pass	206	211	2
L1308604-01	SV-1	713	1.0L Can	05/10/13	88353	L1307812-02	Pass	-28.1	0.1	-	-	-	-



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1307812  
**Report Date:** 05/21/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 05/03/13 17:04  
 Analyst: RY

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 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
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:** L1307812  
**Report Date:** 05/21/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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:** L1307812  
**Report Date:** 05/21/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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:** L1307812  
**Report Date:** 05/21/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-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-Trimethylbenzene	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  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1307812  
**Report Date:** 05/21/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1307812  
**Report Date:** 05/21/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/03/13 17:04  
 Analyst: RY

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 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:** L1307812  
**Report Date:** 05/21/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 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-Trimethylbenzene	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:** L1307812  
**Report Date:** 05/21/13

### Air Canister Certification Results

Lab ID: L1307812-02 Date Collected: 05/01/13 15:17  
 Client ID: CAN 846 SHELF 14 Date Received: 05/02/13  
 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	85		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	93		60-140

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308604**Project Number:** 41.0162122.00**Report Date:** 05/21/13**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 Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308604-01A	Canister - 1 Liter	N/A	N/A		Y	Absent	TO15-LL(30)

\*Values in parentheses indicate holding time in days

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

## 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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

**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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308604  
**Report Date:** 05/21/13

## 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.





## ANALYTICAL REPORT

Lab Number:	L1308630
Client:	GZA GeoEnvironmental, Inc. 104 West 29th Street, 10th Floor New York, NY 10001
ATTN:	James Bellew
Phone:	(212) 594-8140
Project Name:	522-532 W 29TH ST
Project Number:	41.0162122.00
Report Date:	05/21/13

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.

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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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1308630-01	SB-3 (0-2')	NYC	05/14/13 08:25
L1308630-02	SB-3 (12-14')	NYC	05/14/13 08:30
L1308630-03	SB-2 (0-2')	NYC	05/14/13 09:25
L1308630-04	SB-2 (12-14')	NYC	05/14/13 09:30
L1308630-05	SB-8 (0-2')	NYC	05/14/13 14:45
L1308630-06	SB-8 (8')	NYC	05/14/13 14:45
L1308630-07	SB-1 (9-10')	NYC	05/14/13 12:45
L1308630-08	SB-1 (12-14')	NYC	05/14/13 12:47
L1308630-09	SB-1 (0-2')	NYC	05/14/13 12:50
L1308630-10	SB-9 (9-10')	NYC	05/14/13 14:10

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

### 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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

### 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

L1308630-07 has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

#### Semivolatile Organics

L1308630-07 has elevated detection limits due to the dilution required by the sample matrix.

#### Total Metals

L1308630-01 through -10 have elevated detection limits due to the dilutions required by the sample matrix.

The WG608537-4 MS recoveries for Aluminum (771%), Iron (3560%), Lead (232%), and Manganese (190%), performed on L1308630-01, do not apply because the sample concentration is greater than four times the spike amount added.

The WG608537-4 MS recoveries, performed on L1308630-01, are outside the acceptance criteria for Barium (190%), Magnesium (142%), Zinc (166%), and Copper (38%). A post digestion spike was performed with acceptable recoveries for Barium(100%), Magnesium (88%), Zinc (82%), and Copper (94%).

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: 05/21/13

# ORGANICS

# VOLATILES

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-01  
**Client ID:** SB-3 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 15:44  
**Analyst:** BN  
**Percent Solids:** 91%

**Date Collected:** 05/14/13 08:25  
**Date Received:** 05/14/13  
**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	0.16	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:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-01

Date Collected: 05/14/13 08:25

Client ID: SB-3 (0-2')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
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	0.35	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	0.40	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:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-01

Date Collected: 05/14/13 08:25

Client ID: SB-3 (0-2')

Date Received: 05/14/13

Sample Location: 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	89		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	107		70-130

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-02  
**Client ID:** SB-3 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 16:12  
**Analyst:** BN  
**Percent Solids:** 88%

**Date Collected:** 05/14/13 08:30  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.3	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.16	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.93	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.21	1
Dibromochloromethane	ND		ug/kg	0.93	0.29	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.28	1
Tetrachloroethene	ND		ug/kg	0.93	0.13	1
Chlorobenzene	ND		ug/kg	0.93	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.11	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	0.93	0.10	1
Bromodichloromethane	ND		ug/kg	0.93	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.93	0.12	1
1,1-Dichloropropene	ND		ug/kg	4.7	0.42	1
Bromoform	ND		ug/kg	3.7	0.39	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.93	0.16	1
Benzene	ND		ug/kg	0.93	0.11	1
Toluene	ND		ug/kg	1.4	0.10	1
Ethylbenzene	ND		ug/kg	0.93	0.14	1
Chloromethane	ND		ug/kg	4.7	0.73	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	0.93	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Trichloroethene	ND		ug/kg	0.93	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	0.22	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-02

Date Collected: 05/14/13 08:30

Client ID: SB-3 (12-14')

Date Received: 05/14/13

Sample Location: 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	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.14	1
Dibromomethane	ND		ug/kg	9.3	0.15	1
Styrene	ND		ug/kg	1.9	0.29	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.20	1
Acetone	3.8	J	ug/kg	9.3	2.9	1
Carbon disulfide	ND		ug/kg	9.3	1.9	1
2-Butanone	ND		ug/kg	9.3	0.33	1
Vinyl acetate	ND		ug/kg	9.3	0.45	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.3	0.21	1
2-Hexanone	ND		ug/kg	9.3	0.18	1
Bromochloromethane	ND		ug/kg	4.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	4.7	0.21	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.7	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.93	0.30	1
Bromobenzene	ND		ug/kg	4.7	0.19	1
n-Butylbenzene	ND		ug/kg	0.93	0.18	1
sec-Butylbenzene	ND		ug/kg	0.93	0.19	1
tert-Butylbenzene	ND		ug/kg	4.7	0.52	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	0.39	1
Isopropylbenzene	ND		ug/kg	0.93	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.18	1
Naphthalene	ND		ug/kg	4.7	0.72	1
Acrylonitrile	ND		ug/kg	9.3	0.22	1
n-Propylbenzene	ND		ug/kg	0.93	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	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.7	0.54	1
1,4-Dioxane	ND		ug/kg	93	16.	1
1,4-Diethylbenzene	ND		ug/kg	3.7	0.15	1
4-Ethyltoluene	ND		ug/kg	3.7	0.11	1

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-02

Date Collected: 05/14/13 08:30

Client ID: SB-3 (12-14')

Date Received: 05/14/13

Sample Location: 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	3.7	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	89		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-03  
**Client ID:** SB-2 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 16:39  
**Analyst:** BN  
**Percent Solids:** 93%

**Date Collected:** 05/14/13 09:25  
**Date Received:** 05/14/13  
**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
1,1,1,2-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	0.16	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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-03

Date Collected: 05/14/13 09:25

Client ID: SB-2 (0-2')

Date Received: 05/14/13

Sample Location: 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	2.4	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	8.7	J	ug/kg	12	3.6	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	0.56	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	0.26	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	0.37	1
Bromobenzene	ND		ug/kg	5.9	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	5.9	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	0.90	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	0.67	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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-03

Date Collected: 05/14/13 09:25

Client ID: SB-2 (0-2')

Date Received: 05/14/13

Sample Location: 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	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	90		70-130

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-04  
**Client ID:** SB-2 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 17:07  
**Analyst:** BN  
**Percent Solids:** 86%

**Date Collected:** 05/14/13 09:30  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	9.9	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.18	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	0.99	0.21	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	0.99	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.99	0.14	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.12	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.11	1
Bromodichloromethane	ND		ug/kg	0.99	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.45	1
Bromoform	ND		ug/kg	4.0	0.41	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.17	1
Benzene	ND		ug/kg	0.99	0.12	1
Toluene	ND		ug/kg	1.5	0.11	1
Ethylbenzene	ND		ug/kg	0.99	0.15	1
Chloromethane	ND		ug/kg	5.0	0.78	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	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21	1
Trichloroethene	ND		ug/kg	0.99	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-04

Date Collected: 05/14/13 09:30

Client ID: SB-2 (12-14')

Date Received: 05/14/13

Sample Location: 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	2.0	0.10	1
p/m-Xylene	ND		ug/kg	2.0	0.32	1
o-Xylene	ND		ug/kg	2.0	0.27	1
cis-1,2-Dichloroethene	4.9		ug/kg	0.99	0.15	1
Dibromomethane	ND		ug/kg	9.9	0.16	1
Styrene	ND		ug/kg	2.0	0.31	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.22	1
Acetone	6.0	J	ug/kg	9.9	3.1	1
Carbon disulfide	ND		ug/kg	9.9	2.0	1
2-Butanone	ND		ug/kg	9.9	0.35	1
Vinyl acetate	ND		ug/kg	9.9	0.48	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.22	1
2-Hexanone	ND		ug/kg	9.9	0.19	1
Bromochloromethane	ND		ug/kg	5.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.22	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.18	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.32	1
Bromobenzene	ND		ug/kg	5.0	0.21	1
n-Butylbenzene	ND		ug/kg	0.99	0.20	1
sec-Butylbenzene	ND		ug/kg	0.99	0.20	1
tert-Butylbenzene	ND		ug/kg	5.0	0.56	1
o-Chlorotoluene	ND		ug/kg	5.0	0.16	1
p-Chlorotoluene	ND		ug/kg	5.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.78	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.42	1
Isopropylbenzene	ND		ug/kg	0.99	0.17	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.19	1
Naphthalene	ND		ug/kg	5.0	0.76	1
Acrylonitrile	ND		ug/kg	9.9	0.24	1
n-Propylbenzene	ND		ug/kg	0.99	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.78	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57	1
1,4-Dioxane	ND		ug/kg	99	17.	1
1,4-Diethylbenzene	0.71	J	ug/kg	4.0	0.16	1
4-Ethyltoluene	ND		ug/kg	4.0	0.12	1

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-04

Date Collected: 05/14/13 09:30

Client ID: SB-2 (12-14')

Date Received: 05/14/13

Sample Location: 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	4.0	0.13	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-05  
**Client ID:** SB-8 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 17:35  
**Analyst:** BN  
**Percent Solids:** 89%

**Date Collected:** 05/14/13 14:45  
**Date Received:** 05/14/13  
**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	3.6	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	4.1	0.42	1
1,1,1,2-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	0.80	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	0.22	1
Trichloroethene	ND		ug/kg	1.0	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	5.1	0.25	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-05

Date Collected: 05/14/13 14:45

Client ID: SB-8 (0-2')

Date Received: 05/14/13

Sample Location: 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	2.0	0.11	1
p/m-Xylene	ND		ug/kg	2.0	0.33	1
o-Xylene	ND		ug/kg	2.0	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15	1
Dibromomethane	ND		ug/kg	10	0.17	1
Styrene	ND		ug/kg	2.0	0.32	1
Dichlorodifluoromethane	ND		ug/kg	10	0.22	1
Acetone	ND		ug/kg	10	3.2	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	0.49	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	4.1	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	0.20	1
Naphthalene	ND		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	0.15	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	ND		ug/kg	4.1	0.16	1
4-Ethyltoluene	ND		ug/kg	4.1	0.12	1

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-05

Date Collected: 05/14/13 14:45

Client ID: SB-8 (0-2')

Date Received: 05/14/13

Sample Location: 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	4.1	0.13	1
Ethyl ether	ND		ug/kg	5.1	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-06  
**Client ID:** SB-8 (8')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 16:24  
**Analyst:** BN  
**Percent Solids:** 84%

**Date Collected:** 05/14/13 14:45  
**Date Received:** 05/14/13  
**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	0.41	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	0.46	1
1,1,1,2-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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-06

Date Collected: 05/14/13 14:45

Client ID: SB-8 (8')

Date Received: 05/14/13

Sample Location: 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	0.30	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	0.22	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	0.46	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	0.87	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:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-06

Date Collected: 05/14/13 14:45

Client ID: SB-8 (8')

Date Received: 05/14/13

Sample Location: 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	120		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	105		70-130

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-07 D  
 Client ID: SB-1 (9-10')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/15/13 17:19  
 Analyst: BN  
 Percent Solids: 91%

Date Collected: 05/14/13 12:45  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1300	250	2
1,1-Dichloroethane	ND		ug/kg	190	23.	2
Chloroform	ND		ug/kg	190	47.	2
Carbon tetrachloride	ND		ug/kg	130	27.	2
1,2-Dichloropropane	ND		ug/kg	440	29.	2
Dibromochloromethane	ND		ug/kg	130	39.	2
1,1,2-Trichloroethane	ND		ug/kg	190	39.	2
Tetrachloroethene	ND		ug/kg	130	18.	2
Chlorobenzene	ND		ug/kg	130	44.	2
Trichlorofluoromethane	ND		ug/kg	640	15.	2
1,2-Dichloroethane	ND		ug/kg	130	19.	2
1,1,1-Trichloroethane	ND		ug/kg	130	14.	2
Bromodichloromethane	ND		ug/kg	130	29.	2
trans-1,3-Dichloropropene	ND		ug/kg	130	15.	2
cis-1,3-Dichloropropene	ND		ug/kg	130	16.	2
1,1-Dichloropropene	ND		ug/kg	640	58.	2
Bromoform	ND		ug/kg	510	53.	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	130	22.	2
Benzene	ND		ug/kg	130	15.	2
Toluene	ND		ug/kg	190	14.	2
Ethylbenzene	110	J	ug/kg	130	19.	2
Chloromethane	ND		ug/kg	640	100	2
Bromomethane	ND		ug/kg	250	43.	2
Vinyl chloride	ND		ug/kg	250	18.	2
Chloroethane	ND		ug/kg	250	40.	2
1,1-Dichloroethene	ND		ug/kg	130	26.	2
trans-1,2-Dichloroethene	ND		ug/kg	190	27.	2
Trichloroethene	ND		ug/kg	130	19.	2
1,2-Dichlorobenzene	ND		ug/kg	640	23.	2
1,3-Dichlorobenzene	ND		ug/kg	640	23.	2
1,4-Dichlorobenzene	ND		ug/kg	640	31.	2

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-07 D  
 Client ID: SB-1 (9-10')  
 Sample Location: NYC

Date Collected: 05/14/13 12:45  
 Date Received: 05/14/13  
 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	250	13.	2
p/m-Xylene	140	J	ug/kg	250	41.	2
o-Xylene	ND		ug/kg	250	34.	2
cis-1,2-Dichloroethene	ND		ug/kg	130	19.	2
Dibromomethane	ND		ug/kg	1300	21.	2
Styrene	ND		ug/kg	250	39.	2
Dichlorodifluoromethane	ND		ug/kg	1300	28.	2
Acetone	ND		ug/kg	1300	400	2
Carbon disulfide	ND		ug/kg	1300	250	2
2-Butanone	ND		ug/kg	1300	45.	2
Vinyl acetate	ND		ug/kg	1300	61.	2
4-Methyl-2-pentanone	ND		ug/kg	1300	31.	2
1,2,3-Trichloropropane	ND		ug/kg	1300	29.	2
2-Hexanone	ND		ug/kg	1300	24.	2
Bromochloromethane	ND		ug/kg	640	25.	2
2,2-Dichloropropane	ND		ug/kg	640	29.	2
1,2-Dibromoethane	ND		ug/kg	510	23.	2
1,3-Dichloropropane	ND		ug/kg	640	22.	2
1,1,1,2-Tetrachloroethane	ND		ug/kg	130	40.	2
Bromobenzene	ND		ug/kg	640	26.	2
n-Butylbenzene	1300		ug/kg	130	25.	2
sec-Butylbenzene	900		ug/kg	130	26.	2
tert-Butylbenzene	ND		ug/kg	640	71.	2
o-Chlorotoluene	ND		ug/kg	640	20.	2
p-Chlorotoluene	ND		ug/kg	640	20.	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	640	100	2
Hexachlorobutadiene	ND		ug/kg	640	54.	2
Isopropylbenzene	340		ug/kg	130	21.	2
p-Isopropyltoluene	630		ug/kg	130	24.	2
Naphthalene	3800		ug/kg	640	98.	2
Acrylonitrile	ND		ug/kg	1300	30.	2
n-Propylbenzene	920		ug/kg	130	16.	2
1,2,3-Trichlorobenzene	ND		ug/kg	640	21.	2
1,2,4-Trichlorobenzene	ND		ug/kg	640	100	2
1,3,5-Trimethylbenzene	ND		ug/kg	640	18.	2
1,2,4-Trimethylbenzene	5200		ug/kg	640	73.	2
1,4-Dioxane	ND		ug/kg	13000	2200	2
1,4-Diethylbenzene	640		ug/kg	510	20.	2
4-Ethyltoluene	640		ug/kg	510	15.	2

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-07 D

Date Collected: 05/14/13 12:45

Client ID: SB-1 (9-10')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	2400		ug/kg	510	16.	2
Ethyl ether	ND		ug/kg	640	34.	2
trans-1,4-Dichloro-2-butene	ND		ug/kg	640	57.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	103		70-130

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-08 D  
 Client ID: SB-1 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 05/16/13 17:52  
 Analyst: BN  
 Percent Solids: 90%

Date Collected: 05/14/13 12:47  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	600	J	ug/kg	1300	260	2
1,1-Dichloroethane	ND		ug/kg	200	23.	2
Chloroform	ND		ug/kg	200	49.	2
Carbon tetrachloride	ND		ug/kg	130	28.	2
1,2-Dichloropropane	ND		ug/kg	460	30.	2
Dibromochloromethane	ND		ug/kg	130	40.	2
1,1,2-Trichloroethane	ND		ug/kg	200	40.	2
Tetrachloroethene	ND		ug/kg	130	18.	2
Chlorobenzene	ND		ug/kg	130	46.	2
Trichlorofluoromethane	ND		ug/kg	660	16.	2
1,2-Dichloroethane	ND		ug/kg	130	19.	2
1,1,1-Trichloroethane	ND		ug/kg	130	14.	2
Bromodichloromethane	ND		ug/kg	130	30.	2
trans-1,3-Dichloropropene	ND		ug/kg	130	16.	2
cis-1,3-Dichloropropene	ND		ug/kg	130	17.	2
1,1-Dichloropropene	ND		ug/kg	660	60.	2
Bromoform	ND		ug/kg	530	54.	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	130	22.	2
Benzene	ND		ug/kg	130	16.	2
Toluene	ND		ug/kg	200	15.	2
Ethylbenzene	130		ug/kg	130	19.	2
Chloromethane	ND		ug/kg	660	100	2
Bromomethane	ND		ug/kg	260	44.	2
Vinyl chloride	ND		ug/kg	260	18.	2
Chloroethane	ND		ug/kg	260	42.	2
1,1-Dichloroethene	ND		ug/kg	130	27.	2
trans-1,2-Dichloroethene	ND		ug/kg	200	28.	2
Trichloroethene	ND		ug/kg	130	20.	2
1,2-Dichlorobenzene	ND		ug/kg	660	24.	2
1,3-Dichlorobenzene	ND		ug/kg	660	24.	2
1,4-Dichlorobenzene	ND		ug/kg	660	32.	2

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-08 D  
 Client ID: SB-1 (12-14')  
 Sample Location: NYC

Date Collected: 05/14/13 12:47  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methyl tert butyl ether	ND		ug/kg	260	14.	2
p/m-Xylene	ND		ug/kg	260	42.	2
o-Xylene	ND		ug/kg	260	36.	2
cis-1,2-Dichloroethene	ND		ug/kg	130	20.	2
Dibromomethane	ND		ug/kg	1300	22.	2
Styrene	ND		ug/kg	260	41.	2
Dichlorodifluoromethane	ND		ug/kg	1300	29.	2
Acetone	ND		ug/kg	1300	410	2
Carbon disulfide	ND		ug/kg	1300	260	2
2-Butanone	ND		ug/kg	1300	47.	2
Vinyl acetate	ND		ug/kg	1300	63.	2
4-Methyl-2-pentanone	ND		ug/kg	1300	32.	2
1,2,3-Trichloropropane	ND		ug/kg	1300	30.	2
2-Hexanone	ND		ug/kg	1300	25.	2
Bromochloromethane	ND		ug/kg	660	26.	2
2,2-Dichloropropane	ND		ug/kg	660	30.	2
1,2-Dibromoethane	ND		ug/kg	530	23.	2
1,3-Dichloropropane	ND		ug/kg	660	23.	2
1,1,1,2-Tetrachloroethane	ND		ug/kg	130	42.	2
Bromobenzene	ND		ug/kg	660	27.	2
n-Butylbenzene	5400		ug/kg	130	26.	2
sec-Butylbenzene	4100		ug/kg	130	27.	2
tert-Butylbenzene	ND		ug/kg	660	74.	2
o-Chlorotoluene	ND		ug/kg	660	21.	2
p-Chlorotoluene	ND		ug/kg	660	20.	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	660	100	2
Hexachlorobutadiene	ND		ug/kg	660	56.	2
Isopropylbenzene	1900		ug/kg	130	22.	2
p-Isopropyltoluene	ND		ug/kg	130	25.	2
Naphthalene	ND		ug/kg	660	100	2
Acrylonitrile	ND		ug/kg	1300	31.	2
n-Propylbenzene	5000		ug/kg	130	16.	2
1,2,3-Trichlorobenzene	ND		ug/kg	660	22.	2
1,2,4-Trichlorobenzene	ND		ug/kg	660	100	2
1,3,5-Trimethylbenzene	ND		ug/kg	660	19.	2
1,2,4-Trimethylbenzene	660		ug/kg	660	75.	2
1,4-Dioxane	ND		ug/kg	13000	2300	2
1,4-Diethylbenzene	2400		ug/kg	530	21.	2
4-Ethyltoluene	270	J	ug/kg	530	15.	2

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-08 D

Date Collected: 05/14/13 12:47

Client ID: SB-1 (12-14')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Volatile Organics by 8260/5035 - Westborough Lab

1,2,4,5-Tetramethylbenzene	9200		ug/kg	530	17.	2
Ethyl ether	ND		ug/kg	660	35.	2
trans-1,4-Dichloro-2-butene	ND		ug/kg	660	59.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-09  
**Client ID:** SB-1 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 16:52  
**Analyst:** BN  
**Percent Solids:** 89%

**Date Collected:** 05/14/13 12:50  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	17	3.4	1
1,1-Dichloroethane	ND		ug/kg	2.6	0.30	1
Chloroform	ND		ug/kg	2.6	0.63	1
Carbon tetrachloride	ND		ug/kg	1.7	0.36	1
1,2-Dichloropropane	ND		ug/kg	6.0	0.39	1
Dibromochloromethane	ND		ug/kg	1.7	0.53	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	0.52	1
Tetrachloroethene	ND		ug/kg	1.7	0.24	1
Chlorobenzene	ND		ug/kg	1.7	0.59	1
Trichlorofluoromethane	ND		ug/kg	8.6	0.21	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.19	1
Bromodichloromethane	ND		ug/kg	1.7	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.22	1
1,1-Dichloropropene	ND		ug/kg	8.6	0.78	1
Bromoform	ND		ug/kg	6.8	0.71	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	0.29	1
Benzene	ND		ug/kg	1.7	0.20	1
Toluene	ND		ug/kg	2.6	0.19	1
Ethylbenzene	ND		ug/kg	1.7	0.25	1
Chloromethane	ND		ug/kg	8.6	1.3	1
Bromomethane	ND		ug/kg	3.4	0.58	1
Vinyl chloride	ND		ug/kg	3.4	0.24	1
Chloroethane	ND		ug/kg	3.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.36	1
Trichloroethene	ND		ug/kg	1.7	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	8.6	0.31	1
1,3-Dichlorobenzene	ND		ug/kg	8.6	0.31	1
1,4-Dichlorobenzene	ND		ug/kg	8.6	0.41	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-09

Date Collected: 05/14/13 12:50

Client ID: SB-1 (0-2')

Date Received: 05/14/13

Sample Location: 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	3.4	0.18	1
p/m-Xylene	ND		ug/kg	3.4	0.55	1
o-Xylene	ND		ug/kg	3.4	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.26	1
Dibromomethane	ND		ug/kg	17	0.28	1
Styrene	ND		ug/kg	3.4	0.53	1
Dichlorodifluoromethane	ND		ug/kg	17	0.37	1
Acetone	ND		ug/kg	17	5.3	1
Carbon disulfide	ND		ug/kg	17	3.4	1
2-Butanone	ND		ug/kg	17	0.61	1
Vinyl acetate	ND		ug/kg	17	0.82	1
4-Methyl-2-pentanone	ND		ug/kg	17	0.42	1
1,2,3-Trichloropropane	ND		ug/kg	17	0.38	1
2-Hexanone	ND		ug/kg	17	0.32	1
Bromochloromethane	ND		ug/kg	8.6	0.34	1
2,2-Dichloropropane	ND		ug/kg	8.6	0.38	1
1,2-Dibromoethane	ND		ug/kg	6.8	0.30	1
1,3-Dichloropropane	ND		ug/kg	8.6	0.30	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	0.54	1
Bromobenzene	ND		ug/kg	8.6	0.36	1
n-Butylbenzene	ND		ug/kg	1.7	0.34	1
sec-Butylbenzene	ND		ug/kg	1.7	0.35	1
tert-Butylbenzene	ND		ug/kg	8.6	0.96	1
o-Chlorotoluene	ND		ug/kg	8.6	0.27	1
p-Chlorotoluene	ND		ug/kg	8.6	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.6	1.4	1
Hexachlorobutadiene	ND		ug/kg	8.6	0.72	1
Isopropylbenzene	ND		ug/kg	1.7	0.29	1
p-Isopropyltoluene	ND		ug/kg	1.7	0.33	1
Naphthalene	ND		ug/kg	8.6	1.3	1
Acrylonitrile	ND		ug/kg	17	0.41	1
n-Propylbenzene	ND		ug/kg	1.7	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.6	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.6	1.4	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.6	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	8.6	0.98	1
1,4-Dioxane	ND		ug/kg	170	30.	1
1,4-Diethylbenzene	ND		ug/kg	6.8	0.27	1
4-Ethyltoluene	ND		ug/kg	6.8	0.20	1

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-09

Date Collected: 05/14/13 12:50

Client ID: SB-1 (0-2')

Date Received: 05/14/13

Sample Location: 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	6.8	0.22	1
Ethyl ether	ND		ug/kg	8.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.6	0.76	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	90		70-130

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-10  
**Client ID:** SB-9 (9-10')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/15/13 18:14  
**Analyst:** BN  
**Percent Solids:** 84%

**Date Collected:** 05/14/13 14:10  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by 8260/5035 - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	630	130	1
1,1-Dichloroethane	ND		ug/kg	95	11.	1
Chloroform	ND		ug/kg	95	23.	1
Carbon tetrachloride	ND		ug/kg	63	13.	1
1,2-Dichloropropane	ND		ug/kg	220	14.	1
Dibromochloromethane	ND		ug/kg	63	19.	1
1,1,2-Trichloroethane	ND		ug/kg	95	19.	1
Tetrachloroethene	ND		ug/kg	63	8.9	1
Chlorobenzene	ND		ug/kg	63	22.	1
Trichlorofluoromethane	ND		ug/kg	320	7.7	1
1,2-Dichloroethane	ND		ug/kg	63	9.3	1
1,1,1-Trichloroethane	ND		ug/kg	63	7.0	1
Bromodichloromethane	ND		ug/kg	63	14.	1
trans-1,3-Dichloropropene	ND		ug/kg	63	7.6	1
cis-1,3-Dichloropropene	ND		ug/kg	63	8.0	1
1,1-Dichloropropene	ND		ug/kg	320	29.	1
Bromoform	ND		ug/kg	250	26.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	63	11.	1
Benzene	ND		ug/kg	63	7.5	1
Toluene	ND		ug/kg	95	7.1	1
Ethylbenzene	430		ug/kg	63	9.3	1
Chloromethane	ND		ug/kg	320	50.	1
Bromomethane	ND		ug/kg	130	21.	1
Vinyl chloride	ND		ug/kg	130	8.9	1
Chloroethane	ND		ug/kg	130	20.	1
1,1-Dichloroethene	ND		ug/kg	63	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	95	13.	1
Trichloroethene	ND		ug/kg	63	9.6	1
1,2-Dichlorobenzene	ND		ug/kg	320	12.	1
1,3-Dichlorobenzene	ND		ug/kg	320	12.	1
1,4-Dichlorobenzene	ND		ug/kg	320	15.	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-10

Date Collected: 05/14/13 14:10

Client ID: SB-9 (9-10')

Date Received: 05/14/13

Sample Location: 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	130	6.6	1
p/m-Xylene	680		ug/kg	130	20.	1
o-Xylene	360		ug/kg	130	17.	1
cis-1,2-Dichloroethene	ND		ug/kg	63	9.5	1
Dibromomethane	ND		ug/kg	630	10.	1
Styrene	ND		ug/kg	130	20.	1
Dichlorodifluoromethane	ND		ug/kg	630	14.	1
Acetone	ND		ug/kg	630	200	1
Carbon disulfide	ND		ug/kg	630	130	1
2-Butanone	ND		ug/kg	630	22.	1
Vinyl acetate	ND		ug/kg	630	30.	1
4-Methyl-2-pentanone	ND		ug/kg	630	15.	1
1,2,3-Trichloropropane	ND		ug/kg	630	14.	1
2-Hexanone	ND		ug/kg	630	12.	1
Bromochloromethane	ND		ug/kg	320	12.	1
2,2-Dichloropropane	ND		ug/kg	320	14.	1
1,2-Dibromoethane	ND		ug/kg	250	11.	1
1,3-Dichloropropane	ND		ug/kg	320	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	63	20.	1
Bromobenzene	ND		ug/kg	320	13.	1
n-Butylbenzene	230		ug/kg	63	12.	1
sec-Butylbenzene	94		ug/kg	63	13.	1
tert-Butylbenzene	ND		ug/kg	320	36.	1
o-Chlorotoluene	ND		ug/kg	320	10.	1
p-Chlorotoluene	ND		ug/kg	320	9.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	320	50.	1
Hexachlorobutadiene	ND		ug/kg	320	27.	1
Isopropylbenzene	97		ug/kg	63	11.	1
p-Isopropyltoluene	150		ug/kg	63	12.	1
Naphthalene	670		ug/kg	320	49.	1
Acrylonitrile	ND		ug/kg	630	15.	1
n-Propylbenzene	340		ug/kg	63	8.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	320	11.	1
1,2,4-Trichlorobenzene	ND		ug/kg	320	50.	1
1,3,5-Trimethylbenzene	530		ug/kg	320	9.1	1
1,2,4-Trimethylbenzene	2300		ug/kg	320	36.	1
1,4-Dioxane	ND		ug/kg	6300	1100	1
1,4-Diethylbenzene	760		ug/kg	250	10.	1
4-Ethyltoluene	1000		ug/kg	250	7.4	1

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-10

Date Collected: 05/14/13 14:10

Client ID: SB-9 (9-10')

Date Received: 05/14/13

Sample Location: 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	460		ug/kg	250	8.2	1
Ethyl ether	ND		ug/kg	320	17.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	320	28.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:06  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06,09 Batch: WG608397-3					
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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:06  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06,09 Batch: WG608397-3					
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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:06  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06,09 Batch: WG608397-3					
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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 05/15/13 09:06

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06,09 Batch: WG608397-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	103		70-130

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:06  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07,10 Batch: WG608398-3					
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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:06  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07,10 Batch: WG608398-3					
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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:06  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07,10 Batch: WG608398-3					
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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 05/15/13 09:06  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07,10 Batch: WG608398-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	103		70-130

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:09  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG608440-3					
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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 05/15/13 09:09  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG608440-3					
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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/15/13 09:09  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG608440-3					
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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 05/15/13 09:09  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG608440-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/16/13 08:40  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG608705-3					
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	0.22	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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/16/13 08:40  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG608705-3					
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:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/16/13 08:40  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG608705-3					
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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 05/16/13 08:40  
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG608705-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	103		70-130

### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06,09 Batch: WG608397-1 WG608397-2									
Methylene chloride	92		73		70-130		23		30
1,1-Dichloroethane	93		94		70-130		1		30
Chloroform	97		98		70-130		1		30
Carbon tetrachloride	96		95		70-130		1		30
1,2-Dichloropropane	89		91		70-130		2		30
Dibromochloromethane	92		100		70-130		8		30
2-Chloroethylvinyl ether	95		100				5		30
1,1,2-Trichloroethane	97		109		70-130		12		30
Tetrachloroethene	84		85		70-130		1		30
Chlorobenzene	95		97		70-130		2		30
Trichlorofluoromethane	114		111		70-139		3		30
1,2-Dichloroethane	104		107		70-130		3		30
1,1,1-Trichloroethane	96		94		70-130		2		30
Bromodichloromethane	98		101		70-130		3		30
trans-1,3-Dichloropropene	99		107		70-130		8		30
cis-1,3-Dichloropropene	94		96		70-130		2		30
1,1-Dichloropropene	96		93		70-130		3		30
Bromoform	94		97		70-130		3		30
1,1,2,2-Tetrachloroethane	104		110		70-130		6		30
Benzene	92		93		70-130		1		30
Toluene	92		96		70-130		4		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06,09 Batch: WG608397-1 WG608397-2									
Ethylbenzene	96		98		70-130		2		30
Chloromethane	73		69		52-130		6		30
Bromomethane	117		131		57-147		11		30
Vinyl chloride	101		99		67-130		2		30
Chloroethane	118		118		50-151		0		30
1,1-Dichloroethene	92		67		65-135		31	Q	30
trans-1,2-Dichloroethene	90		70		70-130		25		30
Trichloroethene	93		93		70-130		0		30
1,2-Dichlorobenzene	95		99		70-130		4		30
1,3-Dichlorobenzene	94		98		70-130		4		30
1,4-Dichlorobenzene	96		98		70-130		2		30
Methyl tert butyl ether	93		87		66-130		7		30
p/m-Xylene	95		96		70-130		1		30
o-Xylene	92		97		70-130		5		30
cis-1,2-Dichloroethene	90		90		70-130		0		30
Dibromomethane	97		102		70-130		5		30
Styrene	92		98		70-130		6		30
Dichlorodifluoromethane	94		91		30-146		3		30
Acetone	137		100		54-140		31	Q	30
Carbon disulfide	93		71		59-130		27		30
2-Butanone	104		118		70-130		13		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06,09 Batch: WG608397-1 WG608397-2									
Vinyl acetate	96		103		70-130		7		30
4-Methyl-2-pentanone	83		89		70-130		7		30
1,2,3-Trichloropropane	108		116		68-130		7		30
2-Hexanone	96		111		70-130		14		30
Bromochloromethane	88		94		70-130		7		30
2,2-Dichloropropane	96		94		70-130		2		30
1,2-Dibromoethane	92		102		70-130		10		30
1,3-Dichloropropane	98		108		69-130		10		30
1,1,1,2-Tetrachloroethane	93		96		70-130		3		30
Bromobenzene	93		94		70-130		1		30
n-Butylbenzene	105		104		70-130		1		30
sec-Butylbenzene	102		101		70-130		1		30
tert-Butylbenzene	98		98		70-130		0		30
o-Chlorotoluene	104		104		70-130		0		30
p-Chlorotoluene	103		104		70-130		1		30
1,2-Dibromo-3-chloropropane	95		102		68-130		7		30
Hexachlorobutadiene	84		86		67-130		2		30
Isopropylbenzene	90		94		70-130		4		30
p-Isopropyltoluene	95		96		70-130		1		30
Naphthalene	89		96		70-130		8		30
Acrylonitrile	85		90		70-130		6		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06,09 Batch: WG608397-1 WG608397-2									
Isopropyl Ether	90		92		66-130		2		30
tert-Butyl Alcohol	80		90		70-130		12		30
n-Propylbenzene	104		103		70-130		1		30
1,2,3-Trichlorobenzene	86		89		70-130		3		30
1,2,4-Trichlorobenzene	86		90		70-130		5		30
1,3,5-Trimethylbenzene	101		102		70-130		1		30
1,2,4-Trimethylbenzene	100		101		70-130		1		30
Methyl Acetate	92		74		51-146		22		30
Ethyl Acetate	82		90		70-130		9		30
Acrolein	68	Q	48	Q	70-130		34	Q	30
Cyclohexane	91		86		59-142		6		30
1,4-Dioxane	100		110		65-136		10		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	105		75		50-139		33	Q	30
1,4-Diethylbenzene	84		85		70-130		1		30
4-Ethyltoluene	88		88		70-130		0		30
1,2,4,5-Tetramethylbenzene	84		86		70-130		2		30
Tetrahydrofuran	67		89		66-130		28		30
Ethyl ether	107		110		67-130		3		30
trans-1,4-Dichloro-2-butene	107		114		70-130		6		30
Methyl cyclohexane	97		93		70-130		4		30
Ethyl-Tert-Butyl-Ether	91		95		70-130		4		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06,09 Batch: WG608397-1 WG608397-2									
Tertiary-Amyl Methyl Ether	92		96		70-130		4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	114		116		70-130
Toluene-d8	102		107		70-130
4-Bromofluorobenzene	109		109		70-130
Dibromofluoromethane	104		105		70-130

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07,10 Batch: WG608398-1 WG608398-2

Methylene chloride	92		73		70-130	23		30
1,1-Dichloroethane	93		94		70-130	1		30
Chloroform	97		98		70-130	1		30
Carbon tetrachloride	96		95		70-130	1		30
1,2-Dichloropropane	89		91		70-130	2		30
Dibromochloromethane	92		100		70-130	8		30
2-Chloroethylvinyl ether	95		100			5		30
1,1,2-Trichloroethane	97		109		70-130	12		30
Tetrachloroethene	84		85		70-130	1		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07,10 Batch: WG608398-1 WG608398-2									
Chlorobenzene	95		97		70-130		2		30
Trichlorofluoromethane	114		111		70-139		3		30
1,2-Dichloroethane	104		107		70-130		3		30
1,1,1-Trichloroethane	96		94		70-130		2		30
Bromodichloromethane	98		101		70-130		3		30
trans-1,3-Dichloropropene	99		107		70-130		8		30
cis-1,3-Dichloropropene	94		96		70-130		2		30
1,1-Dichloropropene	96		93		70-130		3		30
Bromoform	94		97		70-130		3		30
1,1,2,2-Tetrachloroethane	104		110		70-130		6		30
Benzene	92		93		70-130		1		30
Toluene	92		96		70-130		4		30
Ethylbenzene	96		98		70-130		2		30
Chloromethane	73		69		52-130		6		30
Bromomethane	117		131		57-147		11		30
Vinyl chloride	101		99		67-130		2		30
Chloroethane	118		118		50-151		0		30
1,1-Dichloroethene	92		67		65-135		31	Q	30
trans-1,2-Dichloroethene	90		70		70-130		25		30
Trichloroethene	93		93		70-130		0		30
1,2-Dichlorobenzene	95		99		70-130		4		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07,10 Batch: WG608398-1 WG608398-2									
1,3-Dichlorobenzene	94		98		70-130		4		30
1,4-Dichlorobenzene	96		98		70-130		2		30
Methyl tert butyl ether	93		87		66-130		7		30
p/m-Xylene	95		96		70-130		1		30
o-Xylene	92		97		70-130		5		30
cis-1,2-Dichloroethene	90		90		70-130		0		30
Dibromomethane	97		102		70-130		5		30
Styrene	92		98		70-130		6		30
Dichlorodifluoromethane	94		91		30-146		3		30
Acetone	137		100		54-140		31	Q	30
Carbon disulfide	93		71		59-130		27		30
2-Butanone	104		118		70-130		13		30
Vinyl acetate	96		103		70-130		7		30
4-Methyl-2-pentanone	83		89		70-130		7		30
1,2,3-Trichloropropane	108		116		68-130		7		30
2-Hexanone	96		111		70-130		14		30
Bromochloromethane	88		94		70-130		7		30
2,2-Dichloropropane	96		94		70-130		2		30
1,2-Dibromoethane	92		102		70-130		10		30
1,3-Dichloropropane	98		108		69-130		10		30
1,1,1,2-Tetrachloroethane	93		96		70-130		3		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07,10 Batch: WG608398-1 WG608398-2									
Bromobenzene	93		94		70-130		1		30
n-Butylbenzene	105		104		70-130		1		30
sec-Butylbenzene	102		101		70-130		1		30
tert-Butylbenzene	98		98		70-130		0		30
o-Chlorotoluene	104		104		70-130		0		30
p-Chlorotoluene	103		104		70-130		1		30
1,2-Dibromo-3-chloropropane	95		102		68-130		7		30
Hexachlorobutadiene	84		86		67-130		2		30
Isopropylbenzene	90		94		70-130		4		30
p-Isopropyltoluene	95		96		70-130		1		30
Naphthalene	89		96		70-130		8		30
Acrylonitrile	85		90		70-130		6		30
Isopropyl Ether	90		92		66-130		2		30
tert-Butyl Alcohol	80		90		70-130		12		30
n-Propylbenzene	104		103		70-130		1		30
1,2,3-Trichlorobenzene	86		89		70-130		3		30
1,2,4-Trichlorobenzene	86		90		70-130		5		30
1,3,5-Trimethylbenzene	101		102		70-130		1		30
1,2,4-Trimethylbenzene	100		101		70-130		1		30
Methyl Acetate	92		74		51-146		22		30
Ethyl Acetate	82		90		70-130		9		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07,10 Batch: WG608398-1 WG608398-2									
Acrolein	68	Q	48	Q	70-130		34	Q	30
Cyclohexane	91		86		59-142		6		30
1,4-Dioxane	100		110		65-136		10		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	105		75		50-139		33	Q	30
1,4-Diethylbenzene	84		85		70-130		1		30
4-Ethyltoluene	88		88		70-130		0		30
1,2,4,5-Tetramethylbenzene	84		86		70-130		2		30
Tetrahydrofuran	67		89		66-130		28		30
Ethyl ether	107		110		67-130		3		30
trans-1,4-Dichloro-2-butene	107		114		70-130		6		30
Methyl cyclohexane	97		93		70-130		4		30
Ethyl-Tert-Butyl-Ether	91		95		70-130		4		30
Tertiary-Amyl Methyl Ether	92		96		70-130		4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	114		116		70-130
Toluene-d8	102		106		70-130
4-Bromofluorobenzene	109		108		70-130
Dibromofluoromethane	104		104		70-130



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG608440-1 WG608440-2									
Methylene chloride	98		98		70-130		0		30
1,1-Dichloroethane	103		100		70-130		3		30
Chloroform	104		100		70-130		4		30
Carbon tetrachloride	109		101		70-130		8		30
1,2-Dichloropropane	101		100		70-130		1		30
Dibromochloromethane	94		93		70-130		1		30
2-Chloroethylvinyl ether	101		100		70-130		1		30
1,1,2-Trichloroethane	88		90		70-130		2		30
Tetrachloroethene	106		102		70-130		4		30
Chlorobenzene	100		98		70-130		2		30
Trichlorofluoromethane	101		94		70-139		7		30
1,2-Dichloroethane	93		94		70-130		1		30
1,1,1-Trichloroethane	106		100		70-130		6		30
Bromodichloromethane	101		100		70-130		1		30
trans-1,3-Dichloropropene	92		92		70-130		0		30
cis-1,3-Dichloropropene	98		96		70-130		2		30
1,1-Dichloropropene	106		99		70-130		7		30
Bromoform	80		82		70-130		2		30
1,1,2,2-Tetrachloroethane	78		79		70-130		1		30
Benzene	103		100		70-130		3		30
Toluene	97		93		70-130		4		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG608440-1 WG608440-2									
Ethylbenzene	100		96		70-130		4		30
Chloromethane	100		95		52-130		5		30
Bromomethane	88		87		57-147		1		30
Vinyl chloride	99		92		67-130		7		30
Chloroethane	87		83		50-151		5		30
1,1-Dichloroethene	113		105		65-135		7		30
trans-1,2-Dichloroethene	109		105		70-130		4		30
Trichloroethene	103		98		70-130		5		30
1,2-Dichlorobenzene	97		96		70-130		1		30
1,3-Dichlorobenzene	99		96		70-130		3		30
1,4-Dichlorobenzene	98		97		70-130		1		30
Methyl tert butyl ether	89		90		66-130		1		30
p/m-Xylene	103		99		70-130		4		30
o-Xylene	101		97		70-130		4		30
cis-1,2-Dichloroethene	105		102		70-130		3		30
Dibromomethane	96		98		70-130		2		30
Styrene	98		95		70-130		3		30
Dichlorodifluoromethane	100		94		30-146		6		30
Acetone	99		93		54-140		6		30
Carbon disulfide	99		93		59-130		6		30
2-Butanone	81		79		70-130		3		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG608440-1 WG608440-2									
Vinyl acetate	80		80		70-130		0		30
4-Methyl-2-pentanone	68	Q	72		70-130		6		30
1,2,3-Trichloropropane	74		77		68-130		4		30
2-Hexanone	69	Q	68	Q	70-130		1		30
Bromochloromethane	106		107		70-130		1		30
2,2-Dichloropropane	105		99		70-130		6		30
1,2-Dibromoethane	92		93		70-130		1		30
1,3-Dichloropropane	90		90		69-130		0		30
1,1,1,2-Tetrachloroethane	98		96		70-130		2		30
Bromobenzene	96		94		70-130		2		30
n-Butylbenzene	104		98		70-130		6		30
sec-Butylbenzene	103		97		70-130		6		30
tert-Butylbenzene	104		98		70-130		6		30
o-Chlorotoluene	103		99		70-130		4		30
p-Chlorotoluene	97		95		70-130		2		30
1,2-Dibromo-3-chloropropane	78		79		68-130		1		30
Hexachlorobutadiene	116		108		67-130		7		30
Isopropylbenzene	98		93		70-130		5		30
p-Isopropyltoluene	104		98		70-130		6		30
Naphthalene	85		86		70-130		1		30
Acrylonitrile	77		80		70-130		4		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG608440-1 WG608440-2									
Isopropyl Ether	94		94		66-130		0		30
tert-Butyl Alcohol	67	Q	72		70-130		7		30
n-Propylbenzene	98		93		70-130		5		30
1,2,3-Trichlorobenzene	99		96		70-130		3		30
1,2,4-Trichlorobenzene	104		100		70-130		4		30
1,3,5-Trimethylbenzene	101		97		70-130		4		30
1,2,4-Trimethylbenzene	101		98		70-130		3		30
Methyl Acetate	74		77		51-146		4		30
Ethyl Acetate	74		77		70-130		4		30
Acrolein	76		78		70-130		3		30
Cyclohexane	103		96		59-142		7		30
1,4-Dioxane	92		95		65-136		3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	112		103		50-139		8		30
1,4-Diethylbenzene	103		98		70-130		5		30
4-Ethyltoluene	100		96		70-130		4		30
1,2,4,5-Tetramethylbenzene	104		100		70-130		4		30
Tetrahydrofuran	87		90		66-130		3		30
Ethyl ether	88		89		67-130		1		30
trans-1,4-Dichloro-2-butene	68	Q	70		70-130		3		30
Methyl cyclohexane	110		101		70-130		9		30
Ethyl-Tert-Butyl-Ether	93		94		70-130		1		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG608440-1 WG608440-2									
Tertiary-Amyl Methyl Ether	92		92		70-130		0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	87		89		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	102		102		70-130

Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG608705-1 WG608705-2									
Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Methylene chloride	98		98		70-130		0		30
1,1-Dichloroethane	88		87		70-130		1		30
Chloroform	92		91		70-130		1		30
Carbon tetrachloride	88		86		70-130		2		30
1,2-Dichloropropane	86		87		70-130		1		30
Dibromochloromethane	92		92		70-130		0		30
2-Chloroethylvinyl ether	92		92		70-130		0		30
1,1,2-Trichloroethane	98		98		70-130		0		30
Tetrachloroethene	82		81		70-130		1		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG608705-1 WG608705-2									
Chlorobenzene	92		91		70-130		1		30
Trichlorofluoromethane	102		99		70-139		3		30
1,2-Dichloroethane	98		98		70-130		0		30
1,1,1-Trichloroethane	88		86		70-130		2		30
Bromodichloromethane	92		92		70-130		0		30
trans-1,3-Dichloropropene	99		99		70-130		0		30
cis-1,3-Dichloropropene	91		90		70-130		1		30
1,1-Dichloropropene	88		85		70-130		3		30
Bromoform	90		89		70-130		1		30
1,1,2,2-Tetrachloroethane	100		99		70-130		1		30
Benzene	87		85		70-130		2		30
Toluene	90		90		70-130		0		30
Ethylbenzene	92		91		70-130		1		30
Chloromethane	74		65		52-130		13		30
Bromomethane	132		113		57-147		16		30
Vinyl chloride	87		82		67-130		6		30
Chloroethane	107		109		50-151		2		30
1,1-Dichloroethene	84		82		65-135		2		30
trans-1,2-Dichloroethene	84		82		70-130		2		30
Trichloroethene	86		85		70-130		1		30
1,2-Dichlorobenzene	94		93		70-130		1		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG608705-1 WG608705-2									
1,3-Dichlorobenzene	94		92		70-130		2		30
1,4-Dichlorobenzene	93		93		70-130		0		30
Methyl tert butyl ether	90		90		66-130		0		30
p/m-Xylene	90		90		70-130		0		30
o-Xylene	92		92		70-130		0		30
cis-1,2-Dichloroethene	86		84		70-130		2		30
Dibromomethane	94		94		70-130		0		30
Styrene	92		92		70-130		0		30
Dichlorodifluoromethane	82		76		30-146		8		30
Acetone	141	Q	136		54-140		4		30
Carbon disulfide	86		84		59-130		2		30
2-Butanone	106		101		70-130		5		30
Vinyl acetate	93		93		70-130		0		30
4-Methyl-2-pentanone	81		80		70-130		1		30
1,2,3-Trichloropropane	102		100		68-130		2		30
2-Hexanone	98		95		70-130		3		30
Bromochloromethane	88		88		70-130		0		30
2,2-Dichloropropane	88		86		70-130		2		30
1,2-Dibromoethane	94		94		70-130		0		30
1,3-Dichloropropane	99		98		69-130		1		30
1,1,1,2-Tetrachloroethane	90		90		70-130		0		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG608705-1 WG608705-2									
Bromobenzene	92		90		70-130		2		30
n-Butylbenzene	98		97		70-130		1		30
sec-Butylbenzene	94		92		70-130		2		30
tert-Butylbenzene	92		89		70-130		3		30
o-Chlorotoluene	99		95		70-130		4		30
p-Chlorotoluene	99		97		70-130		2		30
1,2-Dibromo-3-chloropropane	85		106		68-130		22		30
Hexachlorobutadiene	80		79		67-130		1		30
Isopropylbenzene	88		88		70-130		0		30
p-Isopropyltoluene	92		90		70-130		2		30
Naphthalene	88		88		70-130		0		30
Acrylonitrile	82		82		70-130		0		30
Isopropyl Ether	88		87		66-130		1		30
tert-Butyl Alcohol	78		78		70-130		0		30
n-Propylbenzene	98		95		70-130		3		30
1,2,3-Trichlorobenzene	86		84		70-130		2		30
1,2,4-Trichlorobenzene	88		86		70-130		2		30
1,3,5-Trimethylbenzene	96		94		70-130		2		30
1,2,4-Trimethylbenzene	96		94		70-130		2		30
Methyl Acetate	89		88		51-146		1		30
Ethyl Acetate	78		79		70-130		1		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG608705-1 WG608705-2									
Acrolein	61	Q	61	Q	70-130		0		30
Cyclohexane	81		80		59-142		1		30
1,4-Dioxane	96		94		65-136		2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	92		90		50-139		2		30
1,4-Diethylbenzene	80		80		70-130		0		30
4-Ethyltoluene	84		82		70-130		2		30
1,2,4,5-Tetramethylbenzene	82		82		70-130		0		30
Tetrahydrofuran	82		82		66-130		0		30
Ethyl ether	114		111		67-130		3		30
trans-1,4-Dichloro-2-butene	102		99		70-130		3		30
Methyl cyclohexane	86		83		70-130		4		30
Ethyl-Tert-Butyl-Ether	89		89		70-130		0		30
Tertiary-Amyl Methyl Ether	89		89		70-130		0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	112		112		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	111		109		70-130
Dibromofluoromethane	105		104		70-130



# SEMIVOLATILES

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-01  
**Client ID:** SB-3 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/20/13 01:07  
**Analyst:** RC  
**Percent Solids:** 91%

**Date Collected:** 05/14/13 08:25  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	43	J	ug/kg	140	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	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	47.	1
Fluoranthene	1800		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	100	J	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	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	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1
Benzo(a)anthracene	840		ug/kg	110	36.	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-01

Date Collected: 05/14/13 08:25

Client ID: SB-3 (0-2')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	840		ug/kg	140	45.	1
Benzo(b)fluoranthene	1000		ug/kg	110	37.	1
Benzo(k)fluoranthene	460		ug/kg	110	35.	1
Chrysene	930		ug/kg	110	36.	1
Acenaphthylene	160		ug/kg	140	34.	1
Anthracene	250		ug/kg	110	30.	1
Benzo(ghi)perylene	550		ug/kg	140	38.	1
Fluorene	54	J	ug/kg	180	52.	1
Phenanthrene	1000		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	110		ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	590		ug/kg	140	40.	1
Pyrene	1600		ug/kg	110	35.	1
Biphenyl	ND		ug/kg	420	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	61.	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	57.	1
4-Nitrophenol	ND		ug/kg	260	59.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	67.	1
Pentachlorophenol	ND		ug/kg	140	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	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	81	J	ug/kg	180	39.	1

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-01

Date Collected: 05/14/13 08:25

Client ID: SB-3 (0-2')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	17	Q	25-120
Phenol-d6	27		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	97		0-136
4-Terphenyl-d14	93		18-120

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-02  
**Client ID:** SB-3 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/20/13 01:35  
**Analyst:** RC  
**Percent Solids:** 88%

**Date Collected:** 05/14/13 08:30  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-02

Date Collected: 05/14/13 08:30

Client ID: SB-3 (12-14')

Date Received: 05/14/13

Sample Location: 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:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-02

Date Collected: 05/14/13 08:30

Client ID: SB-3 (12-14')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	79		0-136
4-Terphenyl-d14	73		18-120

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-03  
**Client ID:** SB-2 (0-2')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/20/13 02:03  
**Analyst:** RC  
**Percent Solids:** 93%

**Date Collected:** 05/14/13 09:25  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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	720		ug/kg	110	32.	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	34.	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	37.	1
Dimethyl phthalate	ND		ug/kg	180	45.	1
Benzo(a)anthracene	310		ug/kg	110	35.	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-03

Date Collected: 05/14/13 09:25

Client ID: SB-2 (0-2')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	300		ug/kg	140	43.	1
Benzo(b)fluoranthene	380		ug/kg	110	36.	1
Benzo(k)fluoranthene	130		ug/kg	110	34.	1
Chrysene	380		ug/kg	110	35.	1
Acenaphthylene	59	J	ug/kg	140	33.	1
Anthracene	86	J	ug/kg	110	29.	1
Benzo(ghi)perylene	200		ug/kg	140	37.	1
Fluorene	ND		ug/kg	180	51.	1
Phenanthrene	510		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	46	J	ug/kg	110	34.	1
Indeno(1,2,3-cd)Pyrene	200		ug/kg	140	39.	1
Pyrene	620		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	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	110	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	53.	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	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	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	50	J	ug/kg	180	38.	1

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-03

Date Collected: 05/14/13 09:25

Client ID: SB-2 (0-2')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	26		0-136
4-Terphenyl-d14	96		18-120

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-04  
**Client ID:** SB-2 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/20/13 14:15  
**Analyst:** RC  
**Percent Solids:** 86%

**Date Collected:** 05/14/13 09:30  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	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	63.	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	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	42.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	81	J	ug/kg	120	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	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	64.	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	38.	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	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1
Benzo(a)anthracene	ND		ug/kg	120	38.	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-04

Date Collected: 05/14/13 09:30

Client ID: SB-2 (12-14')

Date Received: 05/14/13

Sample Location: 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	47.	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	150	36.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	62	J	ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	43.	1
Pyrene	71	J	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	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	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	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	420	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	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	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	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	41.	1

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-04

Date Collected: 05/14/13 09:30

Client ID: SB-2 (12-14')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	109		0-136
4-Terphenyl-d14	96		18-120

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-05  
 Client ID: SB-8 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 05/20/13 14:42  
 Analyst: RC  
 Percent Solids: 89%

Date Collected: 05/14/13 14:45  
 Date Received: 05/14/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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	ND		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	ND		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	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	ND		ug/kg	110	36.	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-05

Date Collected: 05/14/13 14:45

Client ID: SB-8 (0-2')

Date Received: 05/14/13

Sample Location: 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	35.	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	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:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-05

Date Collected: 05/14/13 14:45

Client ID: SB-8 (0-2')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	118		0-136
4-Terphenyl-d14	101		18-120

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-06  
**Client ID:** SB-8 (8')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/20/13 15:09  
**Analyst:** RC  
**Percent Solids:** 84%

**Date Collected:** 05/14/13 14:45  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	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	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	61.	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	39	J	ug/kg	120	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	68.	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	64.	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	38.	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	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1
Benzo(a)anthracene	ND		ug/kg	120	38.	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-06

Date Collected: 05/14/13 14:45

Client ID: SB-8 (8')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	47	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	58	J	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	150	36.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	44	J	ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	ND		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	43.	1
Pyrene	42	J	ug/kg	120	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	51.	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	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	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	420	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:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-06

Date Collected: 05/14/13 14:45

Client ID: SB-8 (8')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	104		0-136
4-Terphenyl-d14	92		18-120

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-07 D  
 Client ID: SB-1 (9-10')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 05/20/13 23:26  
 Analyst: RC  
 Percent Solids: 91%

Date Collected: 05/14/13 12:45  
 Date Received: 05/14/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	720	180	5
1,2,4-Trichlorobenzene	ND		ug/kg	900	290	5
Hexachlorobenzene	ND		ug/kg	540	170	5
Bis(2-chloroethyl)ether	ND		ug/kg	810	250	5
2-Chloronaphthalene	ND		ug/kg	900	290	5
1,2-Dichlorobenzene	ND		ug/kg	900	290	5
1,3-Dichlorobenzene	ND		ug/kg	900	280	5
1,4-Dichlorobenzene	ND		ug/kg	900	270	5
3,3'-Dichlorobenzidine	ND		ug/kg	900	240	5
2,4-Dinitrotoluene	ND		ug/kg	900	190	5
2,6-Dinitrotoluene	ND		ug/kg	900	230	5
Fluoranthene	ND		ug/kg	540	160	5
4-Chlorophenyl phenyl ether	ND		ug/kg	900	270	5
4-Bromophenyl phenyl ether	ND		ug/kg	900	210	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	320	5
Bis(2-chloroethoxy)methane	ND		ug/kg	970	270	5
Hexachlorobutadiene	ND		ug/kg	900	250	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	580	5
Hexachloroethane	ND		ug/kg	720	160	5
Isophorone	ND		ug/kg	810	240	5
Naphthalene	1900		ug/kg	900	300	5
Nitrobenzene	ND		ug/kg	810	210	5
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	720	190	5
n-Nitrosodi-n-propylamine	ND		ug/kg	900	270	5
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	900	240	5
Butyl benzyl phthalate	ND		ug/kg	900	180	5
Di-n-butylphthalate	ND		ug/kg	900	170	5
Di-n-octylphthalate	ND		ug/kg	900	220	5
Diethyl phthalate	ND		ug/kg	900	190	5
Dimethyl phthalate	ND		ug/kg	900	230	5
Benzo(a)anthracene	ND		ug/kg	540	180	5

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-07 D  
 Client ID: SB-1 (9-10')  
 Sample Location: NYC

Date Collected: 05/14/13 12:45  
 Date Received: 05/14/13  
 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	720	220	5
Benzo(b)fluoranthene	ND		ug/kg	540	180	5
Benzo(k)fluoranthene	ND		ug/kg	540	170	5
Chrysene	ND		ug/kg	540	180	5
Acenaphthylene	ND		ug/kg	720	170	5
Anthracene	300	J	ug/kg	540	150	5
Benzo(ghi)perylene	ND		ug/kg	720	190	5
Fluorene	1300		ug/kg	900	260	5
Phenanthrene	3100		ug/kg	540	180	5
Dibenzo(a,h)anthracene	ND		ug/kg	540	170	5
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	720	200	5
Pyrene	590		ug/kg	540	170	5
Biphenyl	ND		ug/kg	2000	300	5
4-Chloroaniline	ND		ug/kg	900	240	5
2-Nitroaniline	ND		ug/kg	900	250	5
3-Nitroaniline	ND		ug/kg	900	250	5
4-Nitroaniline	ND		ug/kg	900	240	5
Dibenzofuran	ND		ug/kg	900	300	5
2-Methylnaphthalene	12000		ug/kg	1100	290	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	900	280	5
Acetophenone	ND		ug/kg	900	280	5
2,4,6-Trichlorophenol	ND		ug/kg	540	170	5
P-Chloro-M-Cresol	ND		ug/kg	900	260	5
2-Chlorophenol	ND		ug/kg	900	270	5
2,4-Dichlorophenol	ND		ug/kg	810	290	5
2,4-Dimethylphenol	ND		ug/kg	900	270	5
2-Nitrophenol	ND		ug/kg	1900	280	5
4-Nitrophenol	ND		ug/kg	1200	290	5
2,4-Dinitrophenol	ND		ug/kg	4300	1200	5
4,6-Dinitro-o-cresol	ND		ug/kg	2300	330	5
Pentachlorophenol	ND		ug/kg	720	190	5
Phenol	ND		ug/kg	900	260	5
2-Methylphenol	ND		ug/kg	900	290	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	290	5
2,4,5-Trichlorophenol	ND		ug/kg	900	290	5
Benzoic Acid	ND		ug/kg	2900	910	5
Benzyl Alcohol	ND		ug/kg	900	280	5
Carbazole	ND		ug/kg	900	190	5

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-07 D

Date Collected: 05/14/13 12:45

Client ID: SB-1 (9-10')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	<b>125</b>	Q	23-120
2-Fluorobiphenyl	102		30-120
2,4,6-Tribromophenol	41		0-136
4-Terphenyl-d14	108		18-120

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-08 D  
 Client ID: SB-1 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 05/20/13 23:53  
 Analyst: RC  
 Percent Solids: 90%

Date Collected: 05/14/13 12:47  
 Date Received: 05/14/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 19:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	730	190	5
1,2,4-Trichlorobenzene	ND		ug/kg	910	300	5
Hexachlorobenzene	ND		ug/kg	550	170	5
Bis(2-chloroethyl)ether	ND		ug/kg	820	260	5
2-Chloronaphthalene	ND		ug/kg	910	300	5
1,2-Dichlorobenzene	ND		ug/kg	910	300	5
1,3-Dichlorobenzene	ND		ug/kg	910	290	5
1,4-Dichlorobenzene	ND		ug/kg	910	280	5
3,3'-Dichlorobenzidine	ND		ug/kg	910	240	5
2,4-Dinitrotoluene	ND		ug/kg	910	200	5
2,6-Dinitrotoluene	ND		ug/kg	910	230	5
Fluoranthene	720		ug/kg	550	170	5
4-Chlorophenyl phenyl ether	ND		ug/kg	910	280	5
4-Bromophenyl phenyl ether	ND		ug/kg	910	210	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	320	5
Bis(2-chloroethoxy)methane	ND		ug/kg	990	280	5
Hexachlorobutadiene	ND		ug/kg	910	260	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	590	5
Hexachloroethane	ND		ug/kg	730	170	5
Isophorone	ND		ug/kg	820	240	5
Naphthalene	ND		ug/kg	910	300	5
Nitrobenzene	ND		ug/kg	820	220	5
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	730	190	5
n-Nitrosodi-n-propylamine	ND		ug/kg	910	270	5
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	910	240	5
Butyl benzyl phthalate	ND		ug/kg	910	180	5
Di-n-butylphthalate	ND		ug/kg	910	180	5
Di-n-octylphthalate	ND		ug/kg	910	220	5
Diethyl phthalate	ND		ug/kg	910	190	5
Dimethyl phthalate	ND		ug/kg	910	230	5
Benzo(a)anthracene	280	J	ug/kg	550	180	5



Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-08 D  
 Client ID: SB-1 (12-14')  
 Sample Location: NYC

Date Collected: 05/14/13 12:47  
 Date Received: 05/14/13  
 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	730	220	5
Benzo(b)fluoranthene	260	J	ug/kg	550	180	5
Benzo(k)fluoranthene	ND		ug/kg	550	170	5
Chrysene	350	J	ug/kg	550	180	5
Acenaphthylene	ND		ug/kg	730	170	5
Anthracene	580		ug/kg	550	150	5
Benzo(ghi)perylene	ND		ug/kg	730	190	5
Fluorene	2800		ug/kg	910	260	5
Phenanthrene	6900		ug/kg	550	180	5
Dibenzo(a,h)anthracene	ND		ug/kg	550	180	5
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	730	200	5
Pyrene	1500		ug/kg	550	180	5
Biphenyl	ND		ug/kg	2100	300	5
4-Chloroaniline	ND		ug/kg	910	240	5
2-Nitroaniline	ND		ug/kg	910	260	5
3-Nitroaniline	ND		ug/kg	910	250	5
4-Nitroaniline	ND		ug/kg	910	250	5
Dibenzofuran	ND		ug/kg	910	300	5
2-Methylnaphthalene	23000		ug/kg	1100	290	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	910	280	5
Acetophenone	ND		ug/kg	910	280	5
2,4,6-Trichlorophenol	ND		ug/kg	550	170	5
P-Chloro-M-Cresol	ND		ug/kg	910	260	5
2-Chlorophenol	ND		ug/kg	910	280	5
2,4-Dichlorophenol	ND		ug/kg	820	300	5
2,4-Dimethylphenol	ND		ug/kg	910	270	5
2-Nitrophenol	ND		ug/kg	2000	280	5
4-Nitrophenol	ND		ug/kg	1300	300	5
2,4-Dinitrophenol	ND		ug/kg	4400	1200	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	330	5
Pentachlorophenol	ND		ug/kg	730	200	5
Phenol	ND		ug/kg	910	270	5
2-Methylphenol	ND		ug/kg	910	290	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	300	5
2,4,5-Trichlorophenol	ND		ug/kg	910	300	5
Benzoic Acid	ND		ug/kg	3000	920	5
Benzyl Alcohol	ND		ug/kg	910	280	5
Carbazole	ND		ug/kg	910	200	5

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-08 D

Date Collected: 05/14/13 12:47

Client ID: SB-1 (12-14')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	<b>152</b>	Q	23-120
2-Fluorobiphenyl	99		30-120
2,4,6-Tribromophenol	16		0-136
4-Terphenyl-d14	107		18-120

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-09  
Client ID: SB-1 (0-2')  
Sample Location: NYC  
Matrix: Soil  
Analytical Method: 1,8270D  
Analytical Date: 05/20/13 16:30  
Analyst: RC  
Percent Solids: 89%

Date Collected: 05/14/13 12:50  
Date Received: 05/14/13  
Field Prep: Not Specified  
Extraction Method: EPA 3546  
Extraction Date: 05/15/13 19:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	83	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	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	40.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	1700		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	82	J	ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	45.	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	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	820		ug/kg	110	37.	1

Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-09

Date Collected: 05/14/13 12:50

Client ID: SB-1 (0-2')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	690		ug/kg	150	46.	1
Benzo(b)fluoranthene	830		ug/kg	110	38.	1
Benzo(k)fluoranthene	400		ug/kg	110	36.	1
Chrysene	920		ug/kg	110	37.	1
Acenaphthylene	160		ug/kg	150	35.	1
Anthracene	260		ug/kg	110	31.	1
Benzo(ghi)perylene	380		ug/kg	150	39.	1
Fluorene	96	J	ug/kg	190	54.	1
Phenanthrene	1500		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	120		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	320		ug/kg	150	42.	1
Pyrene	1800		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	63	J	ug/kg	190	63.	1
2-Methylnaphthalene	96	J	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	400	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	100	J	ug/kg	190	40.	1

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-09

Date Collected: 05/14/13 12:50

Client ID: SB-1 (0-2')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	96		0-136
4-Terphenyl-d14	117		18-120

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-10  
 Client ID: SB-9 (9-10')  
 Sample Location: NYC  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 05/20/13 16:56  
 Analyst: RC  
 Percent Solids: 84%

Date Collected: 05/14/13 14:10  
 Date Received: 05/14/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 05/15/13 19:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	230		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	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	42.	1
2,6-Dinitrotoluene	ND		ug/kg	200	50.	1
Fluoranthene	66	J	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	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	36.	1
Isophorone	ND		ug/kg	180	52.	1
Naphthalene	1200		ug/kg	200	65.	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	58.	1
Bis(2-Ethylhexyl)phthalate	200		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: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-10

Date Collected: 05/14/13 14:10

Client ID: SB-9 (9-10')

Date Received: 05/14/13

Sample Location: 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	37.	1
Chrysene	ND		ug/kg	120	38.	1
Acenaphthylene	ND		ug/kg	160	37.	1
Anthracene	91	J	ug/kg	120	33.	1
Benzo(ghi)perylene	ND		ug/kg	160	41.	1
Fluorene	510		ug/kg	200	56.	1
Phenanthrene	1100		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	100	J	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	55.	1
3-Nitroaniline	ND		ug/kg	200	54.	1
4-Nitroaniline	ND		ug/kg	200	53.	1
Dibenzofuran	300		ug/kg	200	65.	1
2-Methylnaphthalene	4200		ug/kg	240	62.	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	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	72.	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:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-10

Date Collected: 05/14/13 14:10

Client ID: SB-9 (9-10')

Date Received: 05/14/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	101		0-136
4-Terphenyl-d14	98		18-120

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 05/16/13 19:26  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG608314-1					
Acenaphthene	ND		ug/kg	130	33.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
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	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
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	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	43.
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	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	98	32.

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 05/16/13 19:26  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG608314-1					
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	30.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	31.
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	54.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	51.
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
Pentachlorophenol	ND		ug/kg	130	35.

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 05/16/13 19:26  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 05/15/13 19:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG608314-1					
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	66		0-136
4-Terphenyl-d14	91		18-120

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG608314-2 WG608314-3									
Acenaphthene	82		87		31-137		6		50
1,2,4-Trichlorobenzene	74		80		38-107		8		50
Hexachlorobenzene	100		95		40-140		5		50
Bis(2-chloroethyl)ether	53		61		40-140		14		50
2-Chloronaphthalene	82		83		40-140		1		50
1,2-Dichlorobenzene	69		74		40-140		7		50
1,3-Dichlorobenzene	65		71		40-140		9		50
1,4-Dichlorobenzene	66		72		28-104		9		50
3,3'-Dichlorobenzidine	67		69		40-140		3		50
2,4-Dinitrotoluene	101	Q	96	Q	28-89		5		50
2,6-Dinitrotoluene	101		92		40-140		9		50
Fluoranthene	102		99		40-140		3		50
4-Chlorophenyl phenyl ether	100		95		40-140		5		50
4-Bromophenyl phenyl ether	99		97		40-140		2		50
Bis(2-chloroisopropyl)ether	46		49		40-140		6		50
Bis(2-chloroethoxy)methane	61		61		40-117		0		50
Hexachlorobutadiene	77		84		40-140		9		50
Hexachlorocyclopentadiene	59		66		40-140		11		50
Hexachloroethane	63		67		40-140		6		50
Isophorone	60		61		40-140		2		50
Naphthalene	69		76		40-140		10		50

### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG608314-2 WG608314-3									
Nitrobenzene	59		62		40-140		5		50
NitrosoDiPhenylAmine(NDPA)/DPA	101		97				4		50
n-Nitrosodi-n-propylamine	59		60		32-121		2		50
Bis(2-Ethylhexyl)phthalate	92		95		40-140		3		50
Butyl benzyl phthalate	97		95		40-140		2		50
Di-n-butylphthalate	100		96		40-140		4		50
Di-n-octylphthalate	96		95		40-140		1		50
Diethyl phthalate	97		92		40-140		5		50
Dimethyl phthalate	96		92		40-140		4		50
Benzo(a)anthracene	99		100		40-140		1		50
Benzo(a)pyrene	98		98		40-140		0		50
Benzo(b)fluoranthene	99		95		40-140		4		50
Benzo(k)fluoranthene	100		98		40-140		2		50
Chrysene	99		100		40-140		1		50
Acenaphthylene	88		86		40-140		2		50
Anthracene	99		101		40-140		2		50
Benzo(ghi)perylene	102		98		40-140		4		50
Fluorene	96		94		40-140		2		50
Phenanthrene	97		96		40-140		1		50
Dibenzo(a,h)anthracene	104		101		40-140		3		50
Indeno(1,2,3-cd)Pyrene	104		103		40-140		1		50



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG608314-2 WG608314-3									
Pyrene	100		97		35-142		3		50
Biphenyl	78		84				7		50
4-Chloroaniline	43		39	Q	40-140		10		50
2-Nitroaniiline	94		87		47-134		8		50
3-Nitroaniline	61		56		26-129		9		50
4-Nitroaniline	86		83		41-125		4		50
Dibenzofuran	89		88		40-140		1		50
2-Methylnaphthalene	75		79		40-140		5		50
1,2,4,5-Tetrachlorobenzene	80		92		40-117		14		50
Acetophenone	65		67		14-144		3		50
2,4,6-Trichlorophenol	95		93		30-130		2		50
P-Chloro-M-Cresol	85		85		26-103		0		50
2-Chlorophenol	70		76		25-102		8		50
2,4-Dichlorophenol	83		88		30-130		6		50
2,4-Dimethylphenol	81		81		30-130		0		50
2-Nitrophenol	74		75		30-130		1		50
4-Nitrophenol	84		79		11-114		6		50
2,4-Dinitrophenol	62		63		4-130		2		50
4,6-Dinitro-o-cresol	98		87		10-130		12		50
Pentachlorophenol	73		73		17-109		0		50
Phenol	60		65		26-90		8		50



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG608314-2 WG608314-3									
2-Methylphenol	70		70		30-130.		0		50
3-Methylphenol/4-Methylphenol	64		67		30-130		5		50
2,4,5-Trichlorophenol	104		93		30-130		11		50
Benzoic Acid	24		22				9		50
Benzyl Alcohol	59		65		40-140		10		50
Carbazole	100		97		54-128		3		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	64		73		25-120
Phenol-d6	64		71		10-120
Nitrobenzene-d5	61		64		23-120
2-Fluorobiphenyl	81		83		30-120
2,4,6-Tribromophenol	92		94		0-136
4-Terphenyl-d14	101		102		18-120



# PCBS

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

**Lab ID:** L1308630-10  
**Client ID:** SB-9 (9-10')  
**Sample Location:** NYC  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 05/19/13 15:09  
**Analyst:** TQ  
**Percent Solids:** 84%

**Date Collected:** 05/14/13 14:10  
**Date Received:** 05/14/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 05/16/13 11:01  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 05/17/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 05/17/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>						
Aroclor 1016	ND		ug/kg	39.3	7.76	1
Aroclor 1221	ND		ug/kg	39.3	11.8	1
Aroclor 1232	ND		ug/kg	39.3	8.35	1
Aroclor 1242	ND		ug/kg	39.3	7.46	1
Aroclor 1248	ND		ug/kg	39.3	4.75	1
Aroclor 1254	ND		ug/kg	39.3	6.19	1
Aroclor 1260	ND		ug/kg	39.3	6.82	1
Aroclor 1262	ND		ug/kg	39.3	2.90	1
Aroclor 1268	ND		ug/kg	39.3	5.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	87		30-150
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	95		30-150

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 05/19/13 15:46  
 Analyst: TQ

Extraction Method: EPA 3546  
 Extraction Date: 05/16/13 11:01  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 05/17/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 05/17/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 10 Batch: WG608502-1					
Aroclor 1016	ND		ug/kg	31.7	6.26
Aroclor 1221	ND		ug/kg	31.7	9.57
Aroclor 1232	ND		ug/kg	31.7	6.74
Aroclor 1242	ND		ug/kg	31.7	6.02
Aroclor 1248	ND		ug/kg	31.7	3.84
Aroclor 1254	ND		ug/kg	31.7	5.00
Aroclor 1260	ND		ug/kg	31.7	5.51
Aroclor 1262	ND		ug/kg	31.7	2.35
Aroclor 1268	ND		ug/kg	31.7	4.60

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	73		30-150

### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Limits			
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 10 Batch: WG608502-2 WG608502-3									
Aroclor 1016	79		80		40-140		1		50
Aroclor 1260	78		78		40-140		0		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2,4,5,6-Tetrachloro-m-xylene	76		74		30-150
Decachlorobiphenyl	78		76		30-150
2,4,5,6-Tetrachloro-m-xylene	77		75		30-150
Decachlorobiphenyl	86		83		30-150



## METALS

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-01  
 Client ID: SB-3 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 91%

Date Collected: 05/14/13 08:25  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	5500		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Antimony, Total	1.5	J	mg/kg	4.3	0.85	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Arsenic, Total	7.8		mg/kg	0.85	0.26	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Barium, Total	140		mg/kg	0.85	0.26	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Beryllium, Total	0.33	J	mg/kg	0.43	0.03	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Cadmium, Total	0.44	J	mg/kg	0.85	0.05	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Calcium, Total	6400		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Chromium, Total	14		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Cobalt, Total	5.1		mg/kg	1.7	0.43	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Copper, Total	80		mg/kg	0.85	0.43	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Iron, Total	12000		mg/kg	4.3	1.7	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Lead, Total	440		mg/kg	4.3	0.26	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Magnesium, Total	1700		mg/kg	8.5	3.4	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Manganese, Total	300		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Mercury, Total	2.5		mg/kg	0.31	0.07	4	05/21/13 07:40	05/21/13 11:20	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	2.1	0.34	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Potassium, Total	1000		mg/kg	210	68.	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Selenium, Total	0.50	J	mg/kg	1.7	0.26	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Silver, Total	0.55	J	mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Sodium, Total	310		mg/kg	170	68.	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.7	0.51	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Vanadium, Total	15		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL
Zinc, Total	270		mg/kg	4.3	0.43	2	05/16/13 12:00	05/20/13 13:27	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-02  
 Client ID: SB-3 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 88%

Date Collected: 05/14/13 08:30  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	3300		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	4.3	0.85	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Arsenic, Total	0.72	J	mg/kg	0.85	0.26	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Barium, Total	20		mg/kg	0.85	0.26	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Beryllium, Total	0.20	J	mg/kg	0.43	0.03	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Cadmium, Total	0.12	J	mg/kg	0.85	0.05	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Calcium, Total	1000		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Chromium, Total	9.1		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Cobalt, Total	3.3		mg/kg	1.7	0.43	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Copper, Total	13		mg/kg	0.85	0.43	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Iron, Total	7700		mg/kg	4.3	1.7	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Lead, Total	4.2	J	mg/kg	4.3	0.26	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Magnesium, Total	1700		mg/kg	8.5	3.4	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Manganese, Total	83		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Mercury, Total	ND		mg/kg	0.09	0.02	1	05/21/13 07:40	05/21/13 11:17	EPA 7471B	1,7471B	MC
Nickel, Total	7.9		mg/kg	2.1	0.34	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Potassium, Total	690		mg/kg	210	68.	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	1.7	0.26	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Sodium, Total	140	J	mg/kg	170	68.	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.7	0.51	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Vanadium, Total	13		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL
Zinc, Total	12		mg/kg	4.3	0.43	2	05/16/13 12:00	05/20/13 13:41	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-03  
 Client ID: SB-2 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 93%

Date Collected: 05/14/13 09:25  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	4100		mg/kg	8.4	1.7	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Antimony, Total	1.1	J	mg/kg	4.2	0.84	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Arsenic, Total	3.0		mg/kg	0.84	0.25	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Barium, Total	360		mg/kg	0.84	0.25	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Beryllium, Total	0.21	J	mg/kg	0.42	0.03	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Cadmium, Total	0.56	J	mg/kg	0.84	0.05	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Calcium, Total	25000		mg/kg	8.4	1.7	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Chromium, Total	13		mg/kg	0.84	0.17	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Cobalt, Total	3.8		mg/kg	1.7	0.42	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Copper, Total	20		mg/kg	0.84	0.42	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Iron, Total	9400		mg/kg	4.2	1.7	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Lead, Total	460		mg/kg	4.2	0.25	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Magnesium, Total	3500		mg/kg	8.4	3.4	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Manganese, Total	160		mg/kg	0.84	0.17	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Mercury, Total	0.16		mg/kg	0.08	0.02	1	05/21/13 07:40	05/21/13 11:18	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	2.1	0.34	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Potassium, Total	960		mg/kg	210	68.	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	1.7	0.25	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.84	0.17	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Sodium, Total	400		mg/kg	170	68.	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.7	0.51	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Vanadium, Total	13		mg/kg	0.84	0.17	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL
Zinc, Total	410		mg/kg	4.2	0.42	2	05/16/13 12:00	05/20/13 13:44	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-04  
 Client ID: SB-2 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 86%

Date Collected: 05/14/13 09:30  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	3900		mg/kg	9.0	1.8	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	4.5	0.90	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Arsenic, Total	0.62	J	mg/kg	0.90	0.27	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Barium, Total	34		mg/kg	0.90	0.27	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Beryllium, Total	0.19	J	mg/kg	0.45	0.04	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Cadmium, Total	0.13	J	mg/kg	0.90	0.05	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Calcium, Total	5100		mg/kg	9.0	1.8	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Chromium, Total	9.8		mg/kg	0.90	0.18	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Cobalt, Total	3.2		mg/kg	1.8	0.45	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Copper, Total	8.7		mg/kg	0.90	0.45	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Iron, Total	7100		mg/kg	4.5	1.8	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Lead, Total	14		mg/kg	4.5	0.27	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Magnesium, Total	2400		mg/kg	9.0	3.6	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Manganese, Total	79		mg/kg	0.90	0.18	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Mercury, Total	ND		mg/kg	0.08	0.02	1	05/21/13 07:40	05/21/13 12:11	EPA 7471B	1,7471B	MC
Nickel, Total	7.3		mg/kg	2.2	0.36	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Potassium, Total	660		mg/kg	220	72.	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	1.8	0.27	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.90	0.18	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Sodium, Total	ND		mg/kg	180	72.	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.8	0.54	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Vanadium, Total	12		mg/kg	0.90	0.18	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL
Zinc, Total	19		mg/kg	4.5	0.45	2	05/16/13 12:00	05/20/13 14:04	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-05  
 Client ID: SB-8 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 89%

Date Collected: 05/14/13 14:45  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	8100		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	4.2	0.85	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Arsenic, Total	1.9		mg/kg	0.85	0.25	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Barium, Total	39		mg/kg	0.85	0.25	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Beryllium, Total	0.31	J	mg/kg	0.42	0.03	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Cadmium, Total	0.22	J	mg/kg	0.85	0.05	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Calcium, Total	1500		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Chromium, Total	16		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Cobalt, Total	5.3		mg/kg	1.7	0.42	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Copper, Total	12		mg/kg	0.85	0.42	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Iron, Total	13000		mg/kg	4.2	1.7	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Lead, Total	13		mg/kg	4.2	0.25	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Magnesium, Total	2000		mg/kg	8.5	3.4	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Manganese, Total	300		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Mercury, Total	0.03	J	mg/kg	0.09	0.02	1	05/21/13 07:40	05/21/13 12:12	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.1	0.34	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Potassium, Total	740		mg/kg	210	68.	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	1.7	0.25	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Sodium, Total	380		mg/kg	170	68.	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.7	0.51	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Vanadium, Total	19		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL
Zinc, Total	21		mg/kg	4.2	0.42	2	05/16/13 12:00	05/20/13 14:08	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-06  
 Client ID: SB-8 (8')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 84%

Date Collected: 05/14/13 14:45  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	8400		mg/kg	9.4	1.9	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	4.7	0.94	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Arsenic, Total	3.0		mg/kg	0.94	0.28	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Barium, Total	100		mg/kg	0.94	0.28	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Beryllium, Total	0.35	J	mg/kg	0.47	0.04	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Cadmium, Total	0.67	J	mg/kg	0.94	0.06	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Calcium, Total	1400		mg/kg	9.4	1.9	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Chromium, Total	18		mg/kg	0.94	0.19	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Cobalt, Total	5.2		mg/kg	1.9	0.47	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Copper, Total	54		mg/kg	0.94	0.47	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Iron, Total	12000		mg/kg	4.7	1.9	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Lead, Total	170		mg/kg	4.7	0.28	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Magnesium, Total	2200		mg/kg	9.4	3.7	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Manganese, Total	220		mg/kg	0.94	0.19	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Mercury, Total	1.5		mg/kg	0.09	0.02	1	05/21/13 07:40	05/21/13 12:18	EPA 7471B	1,7471B	MC
Nickel, Total	16		mg/kg	2.3	0.37	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Potassium, Total	660		mg/kg	230	75.	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	1.9	0.28	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Silver, Total	0.48	J	mg/kg	0.94	0.19	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Sodium, Total	650		mg/kg	190	75.	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.9	0.56	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Vanadium, Total	17		mg/kg	0.94	0.19	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL
Zinc, Total	150		mg/kg	4.7	0.47	2	05/16/13 12:00	05/20/13 14:11	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-07  
 Client ID: SB-1 (9-10')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 91%

Date Collected: 05/14/13 12:45  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	8800		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	4.2	0.85	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Arsenic, Total	3.0		mg/kg	0.85	0.25	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Barium, Total	59		mg/kg	0.85	0.25	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Beryllium, Total	0.30	J	mg/kg	0.42	0.03	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Cadmium, Total	0.31	J	mg/kg	0.85	0.05	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Calcium, Total	24000		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Chromium, Total	16		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Cobalt, Total	5.3		mg/kg	1.7	0.42	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Copper, Total	16		mg/kg	0.85	0.42	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Iron, Total	13000		mg/kg	4.2	1.7	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Lead, Total	49		mg/kg	4.2	0.25	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Magnesium, Total	6500		mg/kg	8.5	3.4	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Manganese, Total	240		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Mercury, Total	0.079	J	mg/kg	0.081	0.017	1	05/21/13 07:40	05/21/13 12:20	EPA 7471B	1,7471B	MC
Nickel, Total	16		mg/kg	2.1	0.34	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Potassium, Total	1000		mg/kg	210	68.	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	1.7	0.25	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Sodium, Total	250		mg/kg	170	68.	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.7	0.51	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Vanadium, Total	20		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL
Zinc, Total	51		mg/kg	4.2	0.42	2	05/16/13 12:00	05/20/13 14:15	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-08  
 Client ID: SB-1 (12-14')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 90%

Date Collected: 05/14/13 12:47  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	6400		mg/kg	8.6	1.7	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	4.3	0.86	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Arsenic, Total	2.0		mg/kg	0.86	0.26	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Barium, Total	180		mg/kg	0.86	0.26	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Beryllium, Total	0.23	J	mg/kg	0.43	0.03	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Cadmium, Total	0.22	J	mg/kg	0.86	0.05	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Calcium, Total	36000		mg/kg	8.6	1.7	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Chromium, Total	12		mg/kg	0.86	0.17	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Cobalt, Total	3.5		mg/kg	1.7	0.43	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Copper, Total	24		mg/kg	0.86	0.43	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Iron, Total	9200		mg/kg	4.3	1.7	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Lead, Total	57		mg/kg	4.3	0.26	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Magnesium, Total	7200		mg/kg	8.6	3.4	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Manganese, Total	640		mg/kg	0.86	0.17	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Mercury, Total	0.02	J	mg/kg	0.09	0.02	1	05/21/13 07:40	05/21/13 12:21	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	2.2	0.34	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Potassium, Total	2200		mg/kg	220	69.	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	1.7	0.26	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.86	0.17	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Sodium, Total	400		mg/kg	170	69.	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.7	0.52	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Vanadium, Total	14		mg/kg	0.86	0.17	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL
Zinc, Total	45		mg/kg	4.3	0.43	2	05/16/13 12:00	05/20/13 14:19	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-09  
 Client ID: SB-1 (0-2')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 89%

Date Collected: 05/14/13 12:50  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	6100		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Antimony, Total	1.1	J	mg/kg	4.3	0.85	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Arsenic, Total	4.2		mg/kg	0.85	0.26	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Barium, Total	200		mg/kg	0.85	0.26	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Beryllium, Total	0.18	J	mg/kg	0.43	0.03	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Cadmium, Total	0.50	J	mg/kg	0.85	0.05	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Calcium, Total	59000		mg/kg	8.5	1.7	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Chromium, Total	11		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Cobalt, Total	3.2		mg/kg	1.7	0.43	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Copper, Total	24		mg/kg	0.85	0.43	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Iron, Total	13000		mg/kg	4.3	1.7	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Lead, Total	760		mg/kg	4.3	0.26	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Magnesium, Total	4700		mg/kg	8.5	3.4	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Manganese, Total	170		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Mercury, Total	0.16		mg/kg	0.08	0.02	1	05/21/13 07:40	05/21/13 12:23	EPA 7471B	1,7471B	MC
Nickel, Total	11		mg/kg	2.1	0.34	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Potassium, Total	1300		mg/kg	210	68.	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	1.7	0.26	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Sodium, Total	690		mg/kg	170	68.	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.7	0.51	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Vanadium, Total	13		mg/kg	0.85	0.17	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL
Zinc, Total	150		mg/kg	4.3	0.43	2	05/16/13 12:00	05/20/13 14:22	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-10  
 Client ID: SB-9 (9-10')  
 Sample Location: NYC  
 Matrix: Soil  
 Percent Solids: 84%

Date Collected: 05/14/13 14:10  
 Date Received: 05/14/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	7500		mg/kg	9.4	1.9	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Antimony, Total	ND		mg/kg	4.7	0.94	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Arsenic, Total	2.5		mg/kg	0.94	0.28	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Barium, Total	38		mg/kg	0.94	0.28	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Beryllium, Total	0.29	J	mg/kg	0.47	0.04	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Cadmium, Total	0.36	J	mg/kg	0.94	0.06	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Calcium, Total	2800		mg/kg	9.4	1.9	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Chromium, Total	14		mg/kg	0.94	0.19	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Cobalt, Total	5.7		mg/kg	1.9	0.47	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Copper, Total	20		mg/kg	0.94	0.47	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Iron, Total	16000		mg/kg	4.7	1.9	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Lead, Total	39		mg/kg	4.7	0.28	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Magnesium, Total	2500		mg/kg	9.4	3.8	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Manganese, Total	150		mg/kg	0.94	0.19	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Mercury, Total	0.10		mg/kg	0.08	0.02	1	05/21/13 07:40	05/21/13 12:25	EPA 7471B	1,7471B	MC
Nickel, Total	13		mg/kg	2.4	0.38	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Potassium, Total	570		mg/kg	240	75.	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Selenium, Total	ND		mg/kg	1.9	0.28	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Silver, Total	ND		mg/kg	0.94	0.19	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Sodium, Total	470		mg/kg	190	75.	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Thallium, Total	ND		mg/kg	1.9	0.56	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Vanadium, Total	16		mg/kg	0.94	0.19	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL
Zinc, Total	120		mg/kg	4.7	0.47	2	05/16/13 12:00	05/20/13 14:26	EPA 3050B	1,6010C	KL



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Metals - Westborough Lab for sample(s): 01-10 Batch: WG608537-1</b>									
Aluminum, Total	ND	mg/kg	4.0	0.80	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Antimony, Total	ND	mg/kg	2.0	0.40	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Arsenic, Total	ND	mg/kg	0.40	0.12	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Barium, Total	ND	mg/kg	0.40	0.12	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Beryllium, Total	ND	mg/kg	0.20	0.02	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Cadmium, Total	ND	mg/kg	0.40	0.02	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Calcium, Total	ND	mg/kg	4.0	0.80	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Chromium, Total	ND	mg/kg	0.40	0.08	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Cobalt, Total	ND	mg/kg	0.80	0.20	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Copper, Total	ND	mg/kg	0.40	0.20	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Iron, Total	ND	mg/kg	2.0	0.80	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Lead, Total	ND	mg/kg	2.0	0.12	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Magnesium, Total	ND	mg/kg	4.0	1.6	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Manganese, Total	ND	mg/kg	0.40	0.08	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Nickel, Total	ND	mg/kg	1.0	0.16	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Potassium, Total	ND	mg/kg	100	32.	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Selenium, Total	ND	mg/kg	0.80	0.12	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Silver, Total	ND	mg/kg	0.40	0.08	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Sodium, Total	ND	mg/kg	80	32.	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Thallium, Total	ND	mg/kg	0.80	0.24	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Vanadium, Total	ND	mg/kg	0.40	0.08	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL
Zinc, Total	ND	mg/kg	2.0	0.20	1	05/16/13 12:00	05/20/13 13:20	1,6010C	KL

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Metals - Westborough Lab for sample(s): 01-10 Batch: WG609251-1</b>									
Mercury, Total	ND	mg/kg	0.08	0.02	1	05/21/13 07:40	05/21/13 10:48	1,7471B	MC



**Project Name:** 522-532 W 29TH ST

**Lab Number:** L1308630

**Project Number:** 41.0162122.00

**Report Date:** 05/21/13

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

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Digestion Method: EPA 7471B

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG608537-2 SRM Lot Number: 0518-10-02									
Aluminum, Total	92	-	-	-	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	96	-	-	-	83-117	-	-	-	-
Chromium, Total	101	-	-	-	80-119	-	-	-	-
Cobalt, Total	105	-	-	-	83-117	-	-	-	-
Copper, Total	109	-	-	-	83-117	-	-	-	-
Iron, Total	108	-	-	-	51-150	-	-	-	-
Lead, Total	102	-	-	-	80-120	-	-	-	-
Magnesium, Total	97	-	-	-	74-126	-	-	-	-
Manganese, Total	102	-	-	-	83-117	-	-	-	-
Nickel, Total	104	-	-	-	82-117	-	-	-	-
Potassium, Total	99	-	-	-	74-126	-	-	-	-
Selenium, Total	106	-	-	-	80-120	-	-	-	-
Silver, Total	108	-	-	-	66-134	-	-	-	-
Sodium, Total	100	-	-	-	74-127	-	-	-	-
Thallium, Total	106	-	-	-	79-120	-	-	-	-
Vanadium, Total	98	-	-	-	79-121	-	-	-	-



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	LCS %Recovery	LCS %Recovery	%Recovery Limits	RPD	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG608537-2 SRM Lot Number: 0518-10-02</b>					
Zinc, Total	100	-	82-119	-	
<b>Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG609251-2 SRM Lot Number: 0518-10-02</b>					
Mercury, Total	105	-	67-133	-	



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG608537-4 QC Sample: L1308630-01 Client ID: SB-3 (0-2')										
Aluminum, Total	5500	168	6800	771	Q	-	-	75-125	-	35
Antimony, Total	1.5J	42.1	36	85		-	-	75-125	-	35
Arsenic, Total	7.8	10.1	18	101		-	-	75-125	-	35
Barium, Total	140	168	460	190	Q	-	-	75-125	-	35
Beryllium, Total	0.33J	4.21	4.5	107		-	-	75-125	-	35
Cadmium, Total	0.44J	4.3	4.6	107		-	-	75-125	-	35
Calcium, Total	6400	843	7400	119		-	-	75-125	-	35
Chromium, Total	14.	16.8	34	119		-	-	75-125	-	35
Cobalt, Total	5.1	42.1	45	95		-	-	75-125	-	35
Copper, Total	80.	21.1	88	38	Q	-	-	75-125	-	35
Iron, Total	12000	84.3	15000	3560	Q	-	-	75-125	-	35
Lead, Total	440	43	540	232	Q	-	-	75-125	-	35
Magnesium, Total	1700	843	2900	142	Q	-	-	75-125	-	35
Manganese, Total	300	42.1	380	190	Q	-	-	75-125	-	35
Nickel, Total	11.	42.1	54	102		-	-	75-125	-	35
Potassium, Total	1000	843	1900	107		-	-	75-125	-	35
Selenium, Total	0.50J	10.1	9.5	94		-	-	75-125	-	35
Silver, Total	0.55J	25.3	25	99		-	-	75-125	-	35
Sodium, Total	310	843	1200	106		-	-	75-125	-	35
Thallium, Total	ND	10.1	8.1	80		-	-	75-125	-	35
Vanadium, Total	15.	42.1	58	102		-	-	75-125	-	35



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG608537-4 QC Sample: L1308630-01 Client ID: SB-3 (0-2')</b>								
Zinc, Total	270	42.1	340	166	Q	-	75-125	35
<b>Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG609251-4 QC Sample: L1308614-06 Client ID: MS Sample</b>								
Mercury, Total	2.6	0.151	4.3	1130	Q	-	70-130	35



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG608537-3 QC Sample: L1308630-01 Client ID: SB-3 (0-2')</b>						
Aluminum, Total	5500	6000	mg/kg	9		35
Antimony, Total	1.5J	1.3J	mg/kg	NC		35
Arsenic, Total	7.8	7.3	mg/kg	7		35
Barium, Total	140	140	mg/kg	0		35
Beryllium, Total	0.33J	0.33J	mg/kg	NC		35
Cadmium, Total	0.44J	0.52J	mg/kg	NC		35
Calcium, Total	6400	6100	mg/kg	5		35
Chromium, Total	14.	18	mg/kg	25		35
Cobalt, Total	5.1	5.7	mg/kg	11		35
Copper, Total	80.	69	mg/kg	15		35
Iron, Total	12000	13000	mg/kg	8		35
Lead, Total	440	470	mg/kg	7		35
Magnesium, Total	1700	2000	mg/kg	16		35
Manganese, Total	300	350	mg/kg	15		35
Nickel, Total	11.	12	mg/kg	9		35
Potassium, Total	1000	1100	mg/kg	10		35
Selenium, Total	0.50J	ND	mg/kg	NC		35
Silver, Total	0.55J	0.44J	mg/kg	NC		35
Sodium, Total	310	300	mg/kg	3		35



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG608537-3 QC Sample: L1308630-01 Client ID: SB-3 (0-2')</b>					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	15.	16	mg/kg	6	35
Zinc, Total	270	300	mg/kg	11	35
<b>Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG609251-3 QC Sample: L1308614-06 Client ID: DUP Sample</b>					
Mercury, Total	2.6	4.1	mg/kg	45	35



# **INORGANICS & MISCELLANEOUS**

**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-01

Date Collected: 05/14/13 08:25

Client ID: SB-3 (0-2')

Date Received: 05/14/13

Sample Location: 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	90.9		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-02

Date Collected: 05/14/13 08:30

Client ID: SB-3 (12-14')

Date Received: 05/14/13

Sample Location: 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	87.7		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-03

Date Collected: 05/14/13 09:25

Client ID: SB-2 (0-2')

Date Received: 05/14/13

Sample Location: 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	92.5		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**SAMPLE RESULTS**

**Lab ID:** L1308630-04  
**Client ID:** SB-2 (12-14')  
**Sample Location:** NYC  
**Matrix:** Soil

**Date Collected:** 05/14/13 09:30  
**Date Received:** 05/14/13  
**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	85.5		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-05

Date Collected: 05/14/13 14:45

Client ID: SB-8 (0-2')

Date Received: 05/14/13

Sample Location: 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	89.1		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

**SAMPLE RESULTS**

Lab ID: L1308630-06

Date Collected: 05/14/13 14:45

Client ID: SB-8 (8')

Date Received: 05/14/13

Sample Location: 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	84.4		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



**Project Name:** 522-532 W 29TH ST**Lab Number:** L1308630**Project Number:** 41.0162122.00**Report Date:** 05/21/13**SAMPLE RESULTS**

Lab ID: L1308630-07

Date Collected: 05/14/13 12:45

Client ID: SB-1 (9-10')

Date Received: 05/14/13

Sample Location: 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	90.8		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-08

Date Collected: 05/14/13 12:47

Client ID: SB-1 (12-14')

Date Received: 05/14/13

Sample Location: 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	90.1		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-09

Date Collected: 05/14/13 12:50

Client ID: SB-1 (0-2')

Date Received: 05/14/13

Sample Location: 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	88.6		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## SAMPLE RESULTS

Lab ID: L1308630-10

Date Collected: 05/14/13 14:10

Client ID: SB-9 (9-10')

Date Received: 05/14/13

Sample Location: 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	83.5		%	0.100	NA	1	-	05/15/13 19:29	30,2540G	RD



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG608315-1 QC Sample: L1308630-01 Client ID: SB-3 (0-2)						
Solids, Total	90.9	90.2	%	1		20



Project Name: 522-532 W 29TH ST

Lab Number: L1308630

Project Number: 41.0162122.00

Report Date: 05/21/13

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 05/15/2013 01:53

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308630-01A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-01B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-01C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-01D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-01E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-01F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-01G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308630-01H	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)
L1308630-02A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-02B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-02C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-02D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-02E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-02F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)

\*Values in parentheses indicate holding time in days



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308630-02G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308630-02H	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)
L1308630-03A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-03B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-03C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-03D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-03E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-03F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-03G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308630-03H	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)
L1308630-04A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-04B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-04C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-04D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-04E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-04F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-04G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days

**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308630-04H	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)
L1308630-05A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-05B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-05C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-05D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-05E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-05F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-05G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308630-05H	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)
L1308630-06A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-06B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-06C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-06D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-06E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-06F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-06G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308630-06H	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)
L1308630-07A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-07B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-07C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-07D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-07E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-07F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)

\*Values in parentheses indicate holding time in days



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308630-07G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308630-07H	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)
L1308630-08A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-08B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-08C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-08D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-08E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-08F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-08G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308630-08H	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)
L1308630-09A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-09B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-09C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-09D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-09E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-09F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-09G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

\*Values in parentheses indicate holding time in days



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308630-09H	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)
L1308630-10A	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-10B	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-10C	5 gram Encore Sampler	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(2)
L1308630-10D	Vial MeOH preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-10E	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-10F	Vial Water preserved split	A	N/A	2.0	Y	Absent	NYTCL-8260HLW(14)
L1308630-10G	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308630-10H	Amber 250ml unpreserved	A	N/A	2.0	Y	Absent	BE-TI(180),NYTCL-8270(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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1308630-10I	Plastic 2oz unpreserved for TS	A	N/A	2.0	Y	Absent	TS(7)

### Container Comments

L1308630-06G

\*Values in parentheses indicate holding time in days



**Project Name:** 522-532 W 29TH ST  
**Project Number:** 41.0162122.00

**Lab Number:** L1308630  
**Report Date:** 05/21/13

## 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:** 522-532 W 29TH ST  
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#### 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

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## 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; ColilertQT, 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, 4500CI-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-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, 4500NO3-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, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-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 4500NH3-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, 4500NH3-H, 4500NO2B, 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, 4500NO3-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, 4500CI-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, 4500NO3-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.)

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:	L1308725
Client:	GZA GeoEnvironmental, Inc. 104 West 29th Street, 10th Floor New York, NY 10001
ATTN:	James Bellew
Phone:	(212) 594-8140
Project Name:	522-532 W. 29TH ST.
Project Number:	41.0162122.00
Report Date:	05/22/13

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.

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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:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1308725-01	MW-3	NYC	05/15/13 11:20
L1308725-02	FN-X	NYC	05/15/13 15:20
L1308725-03	MW-2	NYC	05/15/13 13:10
L1308725-04	MW-1	NYC	05/15/13 14:15
L1308725-05	DUP	NYC	05/15/13 14:30
L1308725-06	FIELD BLANK	NYC	05/15/13 15:15
L1308725-07	TRIP BLANK	NYC	05/15/13 00:00

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

### 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:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

### 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

L1308725-04 and -05 have elevated detection limits due to the dilutions required by the elevated concentrations of non-target compounds in the samples.

#### Semivolatile Organics by SIM

The surrogate recoveries for L1308725-04 and -05 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol (0%), 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.

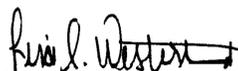
The WG609142-2/-3 LCS/LCSD recoveries, associated with L1308725-01 through -06, were above the acceptance criteria for Acenaphthene (LCSD at 117%), Benzo(b)fluoranthene (LCSD at 142%), Pyrene (LCSD at 131%), and Pentachlorophenol (117%/141%).

#### Dissolved Metals

The WG608435-4 MS recoveries for Calcium (130%), Magnesium (159%), and Manganese (69%), performed on L1308725-01, 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: 05/22/13

# ORGANICS

# VOLATILES

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

**Lab ID:** L1308725-01  
**Client ID:** MW-3  
**Sample Location:** NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/17/13 18:13  
**Analyst:** PD

**Date Collected:** 05/15/13 11:20  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	3.5		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
1,1,1,2-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	0.89	J	ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.75		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	2.2	J	ug/l	2.5	0.70	1
Trichloroethene	1.9		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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-01

Date Collected: 05/15/13 11:20

Client ID: MW-3

Date Received: 05/15/13

Sample Location: 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	43		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	13		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:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-01

Date Collected: 05/15/13 11:20

Client ID: MW-3

Date Received: 05/15/13

Sample Location: 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	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

**Lab ID:** L1308725-02  
**Client ID:** FN-X  
**Sample Location:** NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/21/13 13:16  
**Analyst:** PD

**Date Collected:** 05/15/13 15:20  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	44		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
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	11		ug/l	0.50	0.19	1
Toluene	1.7	J	ug/l	2.5	0.70	1
Ethylbenzene	15		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	9.4		ug/l	1.0	0.33	1
Chloroethane	5.4		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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-02

Date Collected: 05/15/13 15:20

Client ID: FN-X

Date Received: 05/15/13

Sample Location: 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	82		ug/l	2.5	0.70	1
o-Xylene	14		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.0		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	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	2.3	J	ug/l	2.5	0.70	1
sec-Butylbenzene	1.8	J	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	6.4		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	22		ug/l	2.5	0.70	1
n-Propylbenzene	8.9		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	6.0		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	77		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	76.	1
1,4-Diethylbenzene	7.8		ug/l	2.0	0.70	1
4-Ethyltoluene	21		ug/l	2.0	0.70	1

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-02

Date Collected: 05/15/13 15:20

Client ID: FN-X

Date Received: 05/15/13

Sample Location: 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	7.9		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	117		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	110		70-130

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-03 D  
 Client ID: MW-2  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/17/13 19:07  
 Analyst: PD

Date Collected: 05/15/13 13:10  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	10	2.8	4
1,1-Dichloroethane	16		ug/l	10	2.8	4
Chloroform	ND		ug/l	10	2.8	4
Carbon tetrachloride	ND		ug/l	2.0	0.66	4
1,2-Dichloropropane	ND		ug/l	4.0	1.2	4
Dibromochloromethane	ND		ug/l	2.0	0.76	4
1,1,2-Trichloroethane	ND		ug/l	6.0	2.0	4
Tetrachloroethene	ND		ug/l	2.0	0.72	4
Chlorobenzene	ND		ug/l	10	2.8	4
Trichlorofluoromethane	ND		ug/l	10	2.8	4
1,2-Dichloroethane	ND		ug/l	2.0	0.64	4
1,1,1-Trichloroethane	ND		ug/l	10	2.8	4
Bromodichloromethane	ND		ug/l	2.0	0.77	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	0.66	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	0.57	4
1,1-Dichloropropene	ND		ug/l	10	2.8	4
Bromoform	ND		ug/l	8.0	2.6	4
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	0.77	4
Benzene	ND		ug/l	2.0	0.78	4
Toluene	ND		ug/l	10	2.8	4
Ethylbenzene	ND		ug/l	10	2.8	4
Chloromethane	ND		ug/l	10	2.8	4
Bromomethane	ND		ug/l	10	2.8	4
Vinyl chloride	26		ug/l	4.0	1.3	4
Chloroethane	3.8	J	ug/l	10	2.8	4
1,1-Dichloroethene	1.4	J	ug/l	2.0	0.72	4
trans-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Trichloroethene	ND		ug/l	2.0	0.70	4
1,2-Dichlorobenzene	ND		ug/l	10	2.8	4
1,3-Dichlorobenzene	ND		ug/l	10	2.8	4
1,4-Dichlorobenzene	ND		ug/l	10	2.8	4

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-03 D  
 Client ID: MW-2  
 Sample Location: NYC

Date Collected: 05/15/13 13:10  
 Date Received: 05/15/13  
 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	10	2.8	4
p/m-Xylene	ND		ug/l	10	2.8	4
o-Xylene	ND		ug/l	10	2.8	4
cis-1,2-Dichloroethene	160		ug/l	10	2.8	4
Dibromomethane	ND		ug/l	20	4.0	4
1,2,3-Trichloropropane	ND		ug/l	10	2.8	4
Acrylonitrile	ND		ug/l	20	6.0	4
Styrene	ND		ug/l	10	2.8	4
Dichlorodifluoromethane	ND		ug/l	20	4.0	4
Acetone	4.8	J	ug/l	20	4.0	4
Carbon disulfide	ND		ug/l	20	4.0	4
2-Butanone	ND		ug/l	20	4.0	4
Vinyl acetate	ND		ug/l	20	4.0	4
4-Methyl-2-pentanone	ND		ug/l	20	4.0	4
2-Hexanone	ND		ug/l	20	4.0	4
Bromochloromethane	ND		ug/l	10	2.8	4
2,2-Dichloropropane	ND		ug/l	10	2.8	4
1,2-Dibromoethane	ND		ug/l	8.0	2.6	4
1,3-Dichloropropane	ND		ug/l	10	2.8	4
1,1,1,2-Tetrachloroethane	ND		ug/l	10	2.8	4
Bromobenzene	ND		ug/l	10	2.8	4
n-Butylbenzene	ND		ug/l	10	2.8	4
sec-Butylbenzene	ND		ug/l	10	2.8	4
tert-Butylbenzene	ND		ug/l	10	2.8	4
o-Chlorotoluene	ND		ug/l	10	2.8	4
p-Chlorotoluene	ND		ug/l	10	2.8	4
1,2-Dibromo-3-chloropropane	ND		ug/l	10	2.8	4
Hexachlorobutadiene	ND		ug/l	10	2.8	4
Isopropylbenzene	ND		ug/l	10	2.8	4
p-Isopropyltoluene	ND		ug/l	10	2.8	4
Naphthalene	ND		ug/l	10	2.8	4
n-Propylbenzene	ND		ug/l	10	2.8	4
1,2,3-Trichlorobenzene	ND		ug/l	10	2.8	4
1,2,4-Trichlorobenzene	ND		ug/l	10	2.8	4
1,3,5-Trimethylbenzene	ND		ug/l	10	2.8	4
1,2,4-Trimethylbenzene	ND		ug/l	10	2.8	4
1,4-Dioxane	ND		ug/l	1000	300	4
1,4-Diethylbenzene	ND		ug/l	8.0	2.8	4
4-Ethyltoluene	ND		ug/l	8.0	2.8	4

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-03 D

Date Collected: 05/15/13 13:10

Client ID: MW-2

Date Received: 05/15/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	ND		ug/l	8.0	2.6	4
Ethyl ether	ND		ug/l	10	2.8	4
trans-1,4-Dichloro-2-butene	ND		ug/l	10	2.8	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-04 D  
 Client ID: MW-1  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/17/13 19:35  
 Analyst: PD

Date Collected: 05/15/13 14:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.6	10
1,2-Dichloropropane	ND		ug/l	10	3.0	10
Dibromochloromethane	ND		ug/l	5.0	1.9	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.6	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.9	10
Benzene	12		ug/l	5.0	1.9	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	3.3	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.8	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.7	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-04 D  
 Client ID: MW-1  
 Sample Location: NYC

Date Collected: 05/15/13 14:15  
 Date Received: 05/15/13  
 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	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	17	J	ug/l	50	10.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	10.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	9.8	J	ug/l	25	7.0	10
sec-Butylbenzene	10	J	ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	18	J	ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	32		ug/l	25	7.0	10
n-Propylbenzene	34		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	760	10
1,4-Diethylbenzene	7.4	J	ug/l	20	7.0	10
4-Ethyltoluene	ND		ug/l	20	7.0	10

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-04 D

Date Collected: 05/15/13 14:15

Client ID: MW-1

Date Received: 05/15/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	29		ug/l	20	6.5	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-05 D  
 Client ID: DUP  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/17/13 20:02  
 Analyst: PD

Date Collected: 05/15/13 14:30  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.6	10
1,2-Dichloropropane	ND		ug/l	10	3.0	10
Dibromochloromethane	ND		ug/l	5.0	1.9	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.6	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.9	10
Benzene	11		ug/l	5.0	1.9	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	3.3	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.8	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.7	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-05 D  
 Client ID: DUP  
 Sample Location: NYC

Date Collected: 05/15/13 14:30  
 Date Received: 05/15/13  
 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	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	14	J	ug/l	50	10.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	10.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	11	J	ug/l	25	7.0	10
sec-Butylbenzene	12	J	ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	19	J	ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	35		ug/l	25	7.0	10
n-Propylbenzene	37		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	8.0	J	ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	760	10
1,4-Diethylbenzene	8.3	J	ug/l	20	7.0	10
4-Ethyltoluene	ND		ug/l	20	7.0	10

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-05 D

Date Collected: 05/15/13 14:30

Client ID: DUP

Date Received: 05/15/13

Sample Location: NYC

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Volatile Organics by GC/MS - Westborough Lab

1,2,4,5-Tetramethylbenzene	34		ug/l	20	6.5	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-06  
 Client ID: FIELD BLANK  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/16/13 19:27  
 Analyst: PD

Date Collected: 05/15/13 15:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
1,1,1,2-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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-06  
 Client ID: FIELD BLANK  
 Sample Location: NYC

Date Collected: 05/15/13 15:15  
 Date Received: 05/15/13  
 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	2.5	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:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-06  
 Client ID: FIELD BLANK  
 Sample Location: NYC

Date Collected: 05/15/13 15:15  
 Date Received: 05/15/13  
 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	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	94		70-130

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

**Lab ID:** L1308725-07  
**Client ID:** TRIP BLANK  
**Sample Location:** NYC  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 05/16/13 19:55  
**Analyst:** PD

**Date Collected:** 05/15/13 00:00  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
1,1,1,2-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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-07

Date Collected: 05/15/13 00:00

Client ID: TRIP BLANK

Date Received: 05/15/13

Sample Location: 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	1.8	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:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-07

Date Collected: 05/15/13 00:00

Client ID: TRIP BLANK

Date Received: 05/15/13

Sample Location: 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	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/16/13 12:07  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06-07 Batch: WG608794-3					
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:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/16/13 12:07  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06-07 Batch: WG608794-3					
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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 05/16/13 12:07  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06-07 Batch: WG608794-3					
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	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/17/13 10:27  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG608891-3					
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:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/17/13 10:27  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG608891-3					
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	1.3	J	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:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8260C  
**Analytical Date:** 05/17/13 10:27  
**Analyst:** PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG608891-3					
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	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/13 10:42  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG609612-3					
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:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 05/21/13 10:42  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG609612-3					
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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 05/21/13 10:42  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG609612-3					
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	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	116		70-130

### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG608794-1 WG608794-2									
Methylene chloride	110		109		70-130		1		20
1,1-Dichloroethane	104		102		70-130		2		20
Chloroform	106		102		70-130		4		20
Carbon tetrachloride	97		94		63-132		3		20
1,2-Dichloropropane	104		103		70-130		1		20
Dibromochloromethane	92		89		63-130		3		20
1,1,2-Trichloroethane	102		102		70-130		0		20
Tetrachloroethene	85		81		70-130		5		20
Chlorobenzene	97		97		75-130		0		20
Trichlorofluoromethane	116		112		62-150		4		20
1,2-Dichloroethane	102		102		70-130		0		20
1,1,1-Trichloroethane	100		98		67-130		2		20
Bromodichloromethane	102		98		67-130		4		20
trans-1,3-Dichloropropene	96		94		70-130		2		20
cis-1,3-Dichloropropene	100		100		70-130		0		20
1,1-Dichloropropene	104		100		70-130		4		20
Bromoform	84		82		54-136		2		20
1,1,2,2-Tetrachloroethane	111		114		67-130		3		20
Benzene	105		102		70-130		3		20
Toluene	99		97		70-130		2		20
Ethylbenzene	98		96		70-130		2		20



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG608794-1 WG608794-2									
Chloromethane	87		79		64-130		10		20
Bromomethane	45		44		39-139		2		20
Vinyl chloride	100		94		55-140		6		20
Chloroethane	113		109		55-138		4		20
1,1-Dichloroethene	102		96		61-145		6		20
trans-1,2-Dichloroethene	102		100		70-130		2		20
Trichloroethene	100		98		70-130		2		20
1,2-Dichlorobenzene	100		98		70-130		2		20
1,3-Dichlorobenzene	99		98		70-130		1		20
1,4-Dichlorobenzene	100		98		70-130		2		20
Methyl tert butyl ether	100		98		63-130		2		20
p/m-Xylene	94		91		70-130		3		20
o-Xylene	94		92		70-130		2		20
cis-1,2-Dichloroethene	105		103		70-130		2		20
Dibromomethane	104		101		70-130		3		20
1,2,3-Trichloropropane	113		116		64-130		3		20
Acrylonitrile	102		102		70-130		0		20
Styrene	94		92		70-130		2		20
Dichlorodifluoromethane	84		81		36-147		4		20
Acetone	141		131		58-148		7		20
Carbon disulfide	100		96		51-130		4		20



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG608794-1 WG608794-2									
2-Butanone	126		118		63-138		7		20
Vinyl acetate	101		102		70-130		1		20
4-Methyl-2-pentanone	93		92		59-130		1		20
2-Hexanone	100		98		57-130		2		20
Bromochloromethane	100		98		70-130		2		20
2,2-Dichloropropane	101		97		63-133		4		20
1,2-Dibromoethane	96		97		70-130		1		20
1,3-Dichloropropane	101		102		70-130		1		20
1,1,1,2-Tetrachloroethane	92		90		64-130		2		20
Bromobenzene	98		98		70-130		0		20
n-Butylbenzene	107		104		53-136		3		20
sec-Butylbenzene	104		102		70-130		2		20
tert-Butylbenzene	101		100		70-130		1		20
o-Chlorotoluene	107		106		70-130		1		20
p-Chlorotoluene	105		104		70-130		1		20
1,2-Dibromo-3-chloropropane	106		104		41-144		2		20
Hexachlorobutadiene	88		87		63-130		1		20
Isopropylbenzene	103		101		70-130		2		20
p-Isopropyltoluene	101		99		70-130		2		20
Naphthalene	100		102		70-130		2		20
n-Propylbenzene	106		104		69-130		2		20



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG608794-1 WG608794-2									
1,2,3-Trichlorobenzene	94		94		70-130		0		20
1,2,4-Trichlorobenzene	95		93		70-130		2		20
1,3,5-Trimethylbenzene	102		101		64-130		1		20
1,2,4-Trimethylbenzene	102		100		70-130		2		20
1,4-Dioxane	138		134		56-162		3		20
1,4-Diethylbenzene	100		99		70-130		1		20
4-Ethyltoluene	103		102		70-130		1		20
1,2,4,5-Tetramethylbenzene	99		98		70-130		1		20
Ethyl ether	102		112		59-134		9		20
trans-1,4-Dichloro-2-butene	89		88		70-130		1		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	102		103		70-130



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG608891-1 WG608891-2									
Methylene chloride	112		107		70-130		5		20
1,1-Dichloroethane	107		103		70-130		4		20
Chloroform	108		104		70-130		4		20
Carbon tetrachloride	99		96		63-132		3		20
1,2-Dichloropropane	108		106		70-130		2		20
Dibromochloromethane	94		90		63-130		4		20
1,1,2-Trichloroethane	104		105		70-130		1		20
Tetrachloroethene	85		82		70-130		4		20
Chlorobenzene	99		96		75-130		3		20
Trichlorofluoromethane	125		119		62-150		5		20
1,2-Dichloroethane	107		103		70-130		4		20
1,1,1-Trichloroethane	103		100		67-130		3		20
Bromodichloromethane	104		99		67-130		5		20
trans-1,3-Dichloropropene	98		95		70-130		3		20
cis-1,3-Dichloropropene	103		101		70-130		2		20
1,1-Dichloropropene	109		104		70-130		5		20
Bromoform	86		83		54-136		4		20
1,1,2,2-Tetrachloroethane	117		110		67-130		6		20
Benzene	107		104		70-130		3		20
Toluene	100		97		70-130		3		20
Ethylbenzene	100		96		70-130		4		20



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01_03-05 Batch: WG608891-1 WG608891-2									
Chloromethane	88		80		64-130		10		20
Bromomethane	44		48		39-139		9		20
Vinyl chloride	107		101		55-140		6		20
Chloroethane	119		113		55-138		5		20
1,1-Dichloroethene	102		99		61-145		3		20
trans-1,2-Dichloroethene	106		100		70-130		6		20
Trichloroethene	103		99		70-130		4		20
1,2-Dichlorobenzene	100		97		70-130		3		20
1,3-Dichlorobenzene	100		95		70-130		5		20
1,4-Dichlorobenzene	99		97		70-130		2		20
Methyl tert butyl ether	104		101		63-130		3		20
p/m-Xylene	96		92		70-130		4		20
o-Xylene	96		93		70-130		3		20
cis-1,2-Dichloroethene	107		105		70-130		2		20
Dibromomethane	106		102		70-130		4		20
1,2,3-Trichloropropane	106		113		64-130		6		20
Acrylonitrile	105		104		70-130		1		20
Styrene	96		93		70-130		3		20
Dichlorodifluoromethane	94		89		36-147		5		20
Acetone	147		125		58-148		16		20
Carbon disulfide	103		98		51-130		5		20



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG608891-1 WG608891-2									
2-Butanone	155	Q	143	Q	63-138		8		20
Vinyl acetate	108		105		70-130		3		20
4-Methyl-2-pentanone	103		94		59-130		9		20
2-Hexanone	109		98		57-130		11		20
Bromochloromethane	104		100		70-130		4		20
2,2-Dichloropropane	104		98		63-133		6		20
1,2-Dibromoethane	100		98		70-130		2		20
1,3-Dichloropropane	107		103		70-130		4		20
1,1,1,2-Tetrachloroethane	94		91		64-130		3		20
Bromobenzene	97		94		70-130		3		20
n-Butylbenzene	107		103		53-136		4		20
sec-Butylbenzene	104		101		70-130		3		20
tert-Butylbenzene	100		99		70-130		1		20
o-Chlorotoluene	107		104		70-130		3		20
p-Chlorotoluene	104		103		70-130		1		20
1,2-Dibromo-3-chloropropane	107		102		41-144		5		20
Hexachlorobutadiene	88		82		63-130		7		20
Isopropylbenzene	103		100		70-130		3		20
p-Isopropyltoluene	102		98		70-130		4		20
Naphthalene	101		98		70-130		3		20
n-Propylbenzene	106		103		69-130		3		20



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG608891-1 WG608891-2									
1,2,3-Trichlorobenzene	94		92		70-130		2		20
1,2,4-Trichlorobenzene	94		91		70-130		3		20
1,3,5-Trimethylbenzene	102		100		64-130		2		20
1,2,4-Trimethylbenzene	102		99		70-130		3		20
1,4-Dioxane	144		130		56-162		10		20
1,4-Diethylbenzene	100		96		70-130		4		20
4-Ethyltoluene	102		100		70-130		2		20
1,2,4,5-Tetramethylbenzene	99		95		70-130		4		20
Ethyl ether	116		114		59-134		2		20
trans-1,4-Dichloro-2-butene	95		91		70-130		4		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	105		106		70-130
Toluene-d8	101		99		70-130
4-Bromofluorobenzene	104		105		70-130
Dibromofluoromethane	103		103		70-130



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG609612-1 WG609612-2									
Methylene chloride	106		103		70-130		3		20
1,1-Dichloroethane	108		104		70-130		4		20
Chloroform	116		112		70-130		4		20
Carbon tetrachloride	127		122		63-132		4		20
1,2-Dichloropropane	102		100		70-130		2		20
Dibromochloromethane	125		121		63-130		3		20
1,1,2-Trichloroethane	114		113		70-130		1		20
Tetrachloroethene	127		120		70-130		6		20
Chlorobenzene	116		114		75-130		2		20
Trichlorofluoromethane	132		124		62-150		6		20
1,2-Dichloroethane	118		117		70-130		1		20
1,1,1-Trichloroethane	122		117		67-130		4		20
Bromodichloromethane	116		113		67-130		3		20
trans-1,3-Dichloropropene	110		106		70-130		4		20
cis-1,3-Dichloropropene	106		106		70-130		0		20
1,1-Dichloropropene	110		104		70-130		6		20
Bromoform	117		114		54-136		3		20
1,1,2,2-Tetrachloroethane	110		108		67-130		2		20
Benzene	108		104		70-130		4		20
Toluene	112		110		70-130		2		20
Ethylbenzene	114		110		70-130		4		20



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG609612-1 WG609612-2									
Chloromethane	79		81		64-130		3		20
Bromomethane	94		92		39-139		2		20
Vinyl chloride	101		95		55-140		6		20
Chloroethane	124		122		55-138		2		20
1,1-Dichloroethene	116		112		61-145		4		20
trans-1,2-Dichloroethene	112		108		70-130		4		20
Trichloroethene	110		107		70-130		3		20
1,2-Dichlorobenzene	113		111		70-130		2		20
1,3-Dichlorobenzene	114		112		70-130		2		20
1,4-Dichlorobenzene	113		110		70-130		3		20
Methyl tert butyl ether	103		103		63-130		0		20
p/m-Xylene	119		114		70-130		4		20
o-Xylene	116		113		70-130		3		20
cis-1,2-Dichloroethene	111		108		70-130		3		20
Dibromomethane	119		115		70-130		3		20
1,2,3-Trichloropropane	113		111		64-130		2		20
Acrylonitrile	97		97		70-130		0		20
Styrene	120		114		70-130		5		20
Dichlorodifluoromethane	106		100		36-147		6		20
Acetone	110		121		58-148		10		20
Carbon disulfide	105		100		51-130		5		20



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG609612-1 WG609612-2									
2-Butanone	104		100		63-138		4		20
Vinyl acetate	94		95		70-130		1		20
4-Methyl-2-pentanone	96		101		59-130		5		20
2-Hexanone	92		99		57-130		7		20
Bromochloromethane	124		122		70-130		2		20
2,2-Dichloropropane	118		115		63-133		3		20
1,2-Dibromoethane	117		114		70-130		3		20
1,3-Dichloropropane	110		107		70-130		3		20
1,1,1,2-Tetrachloroethane	121		120		64-130		1		20
Bromobenzene	115		111		70-130		4		20
n-Butylbenzene	106		102		53-136		4		20
sec-Butylbenzene	109		104		70-130		5		20
tert-Butylbenzene	109		105		70-130		4		20
o-Chlorotoluene	109		117		70-130		7		20
p-Chlorotoluene	108		103		70-130		5		20
1,2-Dibromo-3-chloropropane	102		101		41-144		1		20
Hexachlorobutadiene	109		106		63-130		3		20
Isopropylbenzene	109		105		70-130		4		20
p-Isopropyltoluene	110		105		70-130		5		20
Naphthalene	89		92		70-130		3		20
n-Propylbenzene	108		102		69-130		6		20



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG609612-1 WG609612-2									
1,2,3-Trichlorobenzene	103		102		70-130		1		20
1,2,4-Trichlorobenzene	102		102		70-130		0		20
1,3,5-Trimethylbenzene	111		105		64-130		6		20
1,2,4-Trimethylbenzene	109		106		70-130		3		20
1,4-Dioxane	102		102		56-162		0		20
1,4-Diethylbenzene	103		101		70-130		2		20
4-Ethyltoluene	107		101		70-130		6		20
1,2,4,5-Tetramethylbenzene	100		97		70-130		3		20
Ethyl ether	107		103		59-134		4		20
trans-1,4-Dichloro-2-butene	85		81		70-130		5		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	113		112		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	96		95		70-130
Dibromofluoromethane	114		115		70-130



# SEMIVOLATILES

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

**Lab ID:** L1308725-01  
**Client ID:** MW-3  
**Sample Location:** NYC  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 05/21/13 03:03  
**Analyst:** RC

**Date Collected:** 05/15/13 11:20  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 05/19/13 14:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-01

Date Collected: 05/15/13 11:20

Client ID: MW-3

Date Received: 05/15/13

Sample Location: 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	74		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	110		15-120
2,4,6-Tribromophenol	126	Q	10-120
4-Terphenyl-d14	120		41-149

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-01  
 Client ID: MW-3  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/20/13 18:06  
 Analyst: HL

Date Collected: 05/15/13 11:20  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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	75		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	115		23-120
2-Fluorobiphenyl	116		15-120
2,4,6-Tribromophenol	<b>121</b>	Q	10-120
4-Terphenyl-d14	115		41-149

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-02  
 Client ID: FN-X  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 05/21/13 03:31  
 Analyst: RC

Date Collected: 05/15/13 15:20  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:08

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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-02

Date Collected: 05/15/13 15:20

Client ID: FN-X

Date Received: 05/15/13

Sample Location: 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	1.2	J	ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	122	Q	15-120
2,4,6-Tribromophenol	141	Q	10-120
4-Terphenyl-d14	131		41-149

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-02  
 Client ID: FN-X  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/20/13 18:30  
 Analyst: HL

Date Collected: 05/15/13 15:20  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	4.2		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.05	J	ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	15		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	0.15	J	ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	1.4		ug/l	0.20	0.06	1
Phenanthrene	1.3		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	0.10	J	ug/l	0.20	0.06	1
2-Methylnaphthalene	5.9		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	81		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	121	Q	23-120
2-Fluorobiphenyl	106		15-120
2,4,6-Tribromophenol	124	Q	10-120
4-Terphenyl-d14	111		41-149

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-03  
 Client ID: MW-2  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 05/21/13 03:59  
 Analyst: RC

Date Collected: 05/15/13 13:10  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:08

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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-03

Date Collected: 05/15/13 13:10

Client ID: MW-2

Date Received: 05/15/13

Sample Location: 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	78		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	109		23-120
2-Fluorobiphenyl	108		15-120
2,4,6-Tribromophenol	132	Q	10-120
4-Terphenyl-d14	123		41-149

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-03  
 Client ID: MW-2  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/20/13 18:53  
 Analyst: HL

Date Collected: 05/15/13 13:10  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.13	J	ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	0.09	J	ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	0.11	J	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	0.14	J	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	0.10	J	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	67		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	105		41-149

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-04  
 Client ID: MW-1  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 05/21/13 04:27  
 Analyst: RC

Date Collected: 05/15/13 14:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:08

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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-04

Date Collected: 05/15/13 14:15

Client ID: MW-1

Date Received: 05/15/13

Sample Location: 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	85		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	144	Q	23-120
2-Fluorobiphenyl	133	Q	15-120
2,4,6-Tribromophenol	140	Q	10-120
4-Terphenyl-d14	141		41-149

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-04 D  
 Client ID: MW-1  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/22/13 08:31  
 Analyst: HL

Date Collected: 05/15/13 14:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	20		ug/l	4.0	1.3	20
2-Chloronaphthalene	ND		ug/l	4.0	1.3	20
Fluoranthene	ND		ug/l	4.0	0.86	20
Hexachlorobutadiene	ND		ug/l	10	1.4	20
Naphthalene	23		ug/l	4.0	1.3	20
Benzo(a)anthracene	ND		ug/l	4.0	1.1	20
Benzo(a)pyrene	ND		ug/l	4.0	1.4	20
Benzo(b)fluoranthene	ND		ug/l	4.0	1.4	20
Benzo(k)fluoranthene	ND		ug/l	4.0	1.4	20
Chrysene	ND		ug/l	4.0	0.98	20
Acenaphthylene	ND		ug/l	4.0	1.0	20
Anthracene	3.0	J	ug/l	4.0	1.3	20
Benzo(ghi)perylene	ND		ug/l	4.0	1.4	20
Fluorene	26		ug/l	4.0	1.1	20
Phenanthrene	43		ug/l	4.0	1.3	20
Dibenzo(a,h)anthracene	ND		ug/l	4.0	1.5	20
Indeno(1,2,3-cd)Pyrene	ND		ug/l	4.0	1.6	20
Pyrene	5.6		ug/l	4.0	1.1	20
2-Methylnaphthalene	270		ug/l	4.0	1.2	20
Pentachlorophenol	ND		ug/l	16	3.7	20
Hexachlorobenzene	ND		ug/l	16	0.28	20
Hexachloroethane	ND		ug/l	16	1.3	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	21-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	15-120
2,4,6-Tribromophenol	0	Q	10-120
4-Terphenyl-d14	0	Q	41-149

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-05  
 Client ID: DUP  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 05/21/13 04:55  
 Analyst: RC

Date Collected: 05/15/13 14:30  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-05

Date Collected: 05/15/13 14:30

Client ID: DUP

Date Received: 05/15/13

Sample Location: 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	73		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	119		23-120
2-Fluorobiphenyl	133	Q	15-120
2,4,6-Tribromophenol	133	Q	10-120
4-Terphenyl-d14	125		41-149

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-05 D  
 Client ID: DUP  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/22/13 08:55  
 Analyst: HL

Date Collected: 05/15/13 14:30  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	15		ug/l	4.0	1.3	20
2-Chloronaphthalene	ND		ug/l	4.0	1.3	20
Fluoranthene	ND		ug/l	4.0	0.86	20
Hexachlorobutadiene	ND		ug/l	10	1.4	20
Naphthalene	24		ug/l	4.0	1.3	20
Benzo(a)anthracene	ND		ug/l	4.0	1.1	20
Benzo(a)pyrene	ND		ug/l	4.0	1.4	20
Benzo(b)fluoranthene	ND		ug/l	4.0	1.4	20
Benzo(k)fluoranthene	ND		ug/l	4.0	1.4	20
Chrysene	ND		ug/l	4.0	0.98	20
Acenaphthylene	ND		ug/l	4.0	1.0	20
Anthracene	1.9	J	ug/l	4.0	1.3	20
Benzo(ghi)perylene	ND		ug/l	4.0	1.4	20
Fluorene	20		ug/l	4.0	1.1	20
Phenanthrene	31		ug/l	4.0	1.3	20
Dibenzo(a,h)anthracene	ND		ug/l	4.0	1.5	20
Indeno(1,2,3-cd)Pyrene	ND		ug/l	4.0	1.6	20
Pyrene	3.7	J	ug/l	4.0	1.1	20
2-Methylnaphthalene	210		ug/l	4.0	1.2	20
Pentachlorophenol	ND		ug/l	16	3.7	20
Hexachlorobenzene	ND		ug/l	16	0.28	20
Hexachloroethane	ND		ug/l	16	1.3	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	21-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	15-120
2,4,6-Tribromophenol	0	Q	10-120
4-Terphenyl-d14	0	Q	41-149

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-06  
 Client ID: FIELD BLANK  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 05/21/13 05:23  
 Analyst: RC

Date Collected: 05/15/13 15:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:08

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: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## SAMPLE RESULTS

Lab ID: L1308725-06  
 Client ID: FIELD BLANK  
 Sample Location: NYC

Date Collected: 05/15/13 15:15  
 Date Received: 05/15/13  
 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	63		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	100		15-120
2,4,6-Tribromophenol	119		10-120
4-Terphenyl-d14	125		41-149

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-06  
 Client ID: FIELD BLANK  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/20/13 20:05  
 Analyst: HL

Date Collected: 05/15/13 15:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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	65		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	109		41-149

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 05/20/13 19:53  
**Analyst:** RC

**Extraction Method:** EPA 3510C  
**Extraction Date:** 05/19/13 14:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG609141-1					
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	1.6	J	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:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 05/20/13 19:53  
**Analyst:** RC

**Extraction Method:** EPA 3510C  
**Extraction Date:** 05/19/13 14:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG609141-1					
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	64		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	120		41-149

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 05/20/13 16:54  
**Analyst:** HL

**Extraction Method:** EPA 3510C  
**Extraction Date:** 05/19/13 14:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG609142-1					
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	0.12	J	ug/l	0.50	0.07
Naphthalene	0.08	J	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	0.10	J	ug/l	0.80	0.07

Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
 Analytical Date: 05/20/13 16:54  
 Analyst: HL

Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 14:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG609142-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	113		41-149

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG609141-2 WG609141-3									
1,2,4-Trichlorobenzene	75		86		39-98		14		30
Bis(2-chloroethyl)ether	99		100		40-140		1		30
1,2-Dichlorobenzene	76		84		40-140		10		30
1,3-Dichlorobenzene	72		79		40-140		9		30
1,4-Dichlorobenzene	74		80		36-97		8		30
3,3'-Dichlorobenzidine	124		98		40-140		23		30
2,4-Dinitrotoluene	127	Q	126	Q	24-96		1		30
2,6-Dinitrotoluene	122		120		40-140		2		30
4-Chlorophenyl phenyl ether	112		113		40-140		1		30
4-Bromophenyl phenyl ether	121		119		40-140		2		30
Bis(2-chloroisopropyl)ether	96		96		40-140		0		30
Bis(2-chloroethoxy)methane	109		108		40-140		1		30
Hexachlorocyclopentadiene	45		53		40-140		16		30
Isophorone	116		113		40-140		3		30
Nitrobenzene	105		105		40-140		0		30
NitrosoDiPhenylAmine(NDPA)/DPA	123		120		40-140		2		30
n-Nitrosodi-n-propylamine	112		110		29-132		2		30
Bis(2-Ethylhexyl)phthalate	123		119		40-140		3		30
Butyl benzyl phthalate	132		130		40-140		2		30
Di-n-butylphthalate	138		135		40-140		2		30
Di-n-octylphthalate	138		135		40-140		2		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG609141-2 WG609141-3									
Diethyl phthalate	125		124		40-140		1		30
Dimethyl phthalate	122		121		40-140		1		30
Biphenyl	88		97				10		30
4-Chloroaniline	118		78		40-140		41	Q	30
2-Nitroaniline	116		114		52-143		2		30
3-Nitroaniline	111		90		25-145		21		30
4-Nitroaniline	121		118		51-143		3		30
Dibenzofuran	108		112		40-140		4		30
1,2,4,5-Tetrachlorobenzene	80		91		2-134		13		30
Acetophenone	108		107		39-129		1		30
2,4,6-Trichlorophenol	122		123		30-130		1		30
P-Chloro-M-Cresol	115	Q	115		23-97		0		30
2-Chlorophenol	104		103		27-123		1		30
2,4-Dichlorophenol	118		116		30-130		2		30
2,4-Dimethylphenol	113		108		30-130		5		30
2-Nitrophenol	108		106		30-130		2		30
4-Nitrophenol	81	Q	79		10-80		3		30
2,4-Dinitrophenol	108		106		20-130		2		30
4,6-Dinitro-o-cresol	124		123		20-164		1		30
Phenol	60		60		12-110		0		30
2-Methylphenol	102		101		30-130		1		30



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG609141-2 WG609141-3									
3-Methylpheno/4-Methylphenol	104		102		30-130		2		30
2,4,5-Trichlorophenol	126		122		30-130		3		30
Benzoic Acid	57		45				24		30
Benzyl Alcohol	101		96				5		30
Carbazole	127		125		55-144		2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	75		74		21-120
Phenol-d6	57		56		10-120
Nitrobenzene-d5	108		108		23-120
2-Fluorobiphenyl	104		106		15-120
2,4,6-Tribromophenol	129	Q	130	Q	10-120
4-Terphenyl-d14	124		123		41-149



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG609142-2 WG609142-3									
Acenaphthene	97		117	Q	37-111		19		40
2-Chloronaphthalene	97		118		40-140		20		40
Fluoranthene	118		139		40-140		16		40
Hexachlorobutadiene	91		111		40-140		20		40
Naphthalene	94		113		40-140		18		40
Benzo(a)anthracene	125		140		40-140		11		40
Benzo(a)pyrene	95		112		40-140		16		40
Benzo(b)fluoranthene	103		142	Q	40-140		32		40
Benzo(k)fluoranthene	120		128		40-140		6		40
Chrysene	102		113		40-140		10		40
Acenaphthylene	102		122		40-140		18		40
Anthracene	105		124		40-140		17		40
Benzo(ghi)perylene	93		118		40-140		24		40
Fluorene	108		130		40-140		18		40
Phenanthrene	101		117		40-140		15		40
Dibenzo(a,h)anthracene	105		130		40-140		21		40
Indeno(1,2,3-cd)Pyrene	105		132		40-140		23		40
Pyrene	111		131	Q	26-127		17		40
2-Methylnaphthalene	94		117		40-140		22		40
Pentachlorophenol	117	Q	141	Q	9-103		19		40
Hexachlorobenzene	113		130		40-140		14		40



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG609142-2 WG609142-3									
Hexachloroethane	90		107		40-140		17		40

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	64		79		21-120
Phenol-d6	41		49		10-120
Nitrobenzene-d5	95		119		23-120
2-Fluorobiphenyl	87		111		15-120
2,4,6-Tribromophenol	97		119		10-120
4-Terphenyl-d14	103		126		41-149



# PCBS

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

**Lab ID:** L1308725-01  
**Client ID:** MW-3  
**Sample Location:** NYC  
**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 05/21/13 18:31  
**Analyst:** JT

**Date Collected:** 05/15/13 11:20  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 05/19/13 10:30  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 05/20/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 05/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PCB by GC - Westborough Lab</b>						
Aroclor 1016	ND		ug/l	0.250	0.066	1
Aroclor 1221	ND		ug/l	0.250	0.064	1
Aroclor 1232	ND		ug/l	0.250	0.037	1
Aroclor 1242	ND		ug/l	0.250	0.072	1
Aroclor 1248	ND		ug/l	0.250	0.061	1
Aroclor 1254	ND		ug/l	0.250	0.041	1
Aroclor 1260	ND		ug/l	0.250	0.038	1
Aroclor 1262	ND		ug/l	0.250	0.035	1
Aroclor 1268	ND		ug/l	0.250	0.045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	73		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	72		30-150

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-04  
 Client ID: MW-1  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 05/21/13 18:44  
 Analyst: JT

Date Collected: 05/15/13 14:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 10:30  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 05/20/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 05/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PCB by GC - Westborough Lab</b>						
Aroclor 1016	ND		ug/l	0.250	0.066	1
Aroclor 1221	ND		ug/l	0.250	0.064	1
Aroclor 1232	ND		ug/l	0.250	0.037	1
Aroclor 1242	ND		ug/l	0.250	0.072	1
Aroclor 1248	ND		ug/l	0.250	0.061	1
Aroclor 1254	ND		ug/l	0.250	0.041	1
Aroclor 1260	ND		ug/l	0.250	0.038	1
Aroclor 1262	ND		ug/l	0.250	0.035	1
Aroclor 1268	ND		ug/l	0.250	0.045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	79		30-150
Decachlorobiphenyl	64		30-150

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-05  
 Client ID: DUP  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 05/21/13 18:58  
 Analyst: JT

Date Collected: 05/15/13 14:30  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 10:30  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 05/20/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 05/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PCB by GC - Westborough Lab</b>						
Aroclor 1016	ND		ug/l	0.250	0.066	1
Aroclor 1221	ND		ug/l	0.250	0.064	1
Aroclor 1232	ND		ug/l	0.250	0.037	1
Aroclor 1242	ND		ug/l	0.250	0.072	1
Aroclor 1248	ND		ug/l	0.250	0.061	1
Aroclor 1254	ND		ug/l	0.250	0.041	1
Aroclor 1260	ND		ug/l	0.250	0.038	1
Aroclor 1262	ND		ug/l	0.250	0.035	1
Aroclor 1268	ND		ug/l	0.250	0.045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	78		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	69		30-150

**Project Name:** 522-532 W. 29TH ST.**Lab Number:** L1308725**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308725-06  
 Client ID: FIELD BLANK  
 Sample Location: NYC  
 Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 05/21/13 19:11  
 Analyst: JT

Date Collected: 05/15/13 15:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 05/19/13 10:30  
 Cleanup Method1: EPA 3665A  
 Cleanup Date1: 05/20/13  
 Cleanup Method2: EPA 3660B  
 Cleanup Date2: 05/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PCB by GC - Westborough Lab</b>						
Aroclor 1016	ND		ug/l	0.250	0.066	1
Aroclor 1221	ND		ug/l	0.250	0.064	1
Aroclor 1232	ND		ug/l	0.250	0.037	1
Aroclor 1242	ND		ug/l	0.250	0.072	1
Aroclor 1248	ND		ug/l	0.250	0.061	1
Aroclor 1254	ND		ug/l	0.250	0.041	1
Aroclor 1260	ND		ug/l	0.250	0.038	1
Aroclor 1262	ND		ug/l	0.250	0.035	1
Aroclor 1268	ND		ug/l	0.250	0.045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	72		30-150
2,4,5,6-Tetrachloro-m-xylene	69		30-150
Decachlorobiphenyl	71		30-150

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Method Blank Analysis  
 Batch Quality Control**

**Analytical Method:** 1,8082A  
**Analytical Date:** 05/21/13 17:52  
**Analyst:** JT

**Extraction Method:** EPA 3510C  
**Extraction Date:** 05/19/13 10:30  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 05/20/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 05/20/13

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01,04-06 Batch: WG609133-1					
Aroclor 1016	ND		ug/l	0.250	0.066
Aroclor 1221	ND		ug/l	0.250	0.064
Aroclor 1232	ND		ug/l	0.250	0.037
Aroclor 1242	ND		ug/l	0.250	0.072
Aroclor 1248	ND		ug/l	0.250	0.061
Aroclor 1254	ND		ug/l	0.250	0.041
Aroclor 1260	ND		ug/l	0.250	0.038
Aroclor 1262	ND		ug/l	0.250	0.035
Aroclor 1268	ND		ug/l	0.250	0.045

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	83		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	82		30-150



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Limits			
PCB by GC - Westborough Lab Associated sample(s): 01,04-06 Batch: WG609133-2 WG609133-3									
Aroclor 1016	84		79		40-140		6		50
Aroclor 1260	87		85		40-140		2		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2,4,5,6-Tetrachloro-m-xylene	73		71		30-150
Decachlorobiphenyl	79		83		30-150
2,4,5,6-Tetrachloro-m-xylene	74		70		30-150
Decachlorobiphenyl	80		82		30-150



## METALS

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

Lab ID: L1308725-01  
 Client ID: MW-3  
 Sample Location: NYC  
 Matrix: Water

Date Collected: 05/15/13 11:20  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	0.376		mg/l	0.0100	0.00200	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Antimony, Total	0.00039	J	mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00129		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Barium, Total	0.1033		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Calcium, Total	251.		mg/l	1.00	0.320	10	05/16/13 08:18	05/17/13 13:33	EPA 3005A	1,6020A	AK
Chromium, Total	ND		mg/l	0.00100	0.00020	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Cobalt, Total	0.00161		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Copper, Total	0.00019	J	mg/l	0.00150	0.00010	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Iron, Total	1.05		mg/l	0.0500	0.0130	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Lead, Total	0.00185		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Magnesium, Total	50.9		mg/l	1.00	0.230	10	05/16/13 08:18	05/17/13 13:33	EPA 3005A	1,6020A	AK
Manganese, Total	2.075		mg/l	0.00500	0.00100	10	05/16/13 08:18	05/17/13 13:33	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/17/13 10:03	05/20/13 10:33	EPA 7470A	1,7470A	JH
Nickel, Total	0.00141		mg/l	0.00100	0.00010	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Potassium, Total	24.4		mg/l	0.100	0.0270	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Selenium, Total	0.00171	J	mg/l	0.00500	0.00030	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00040	0.00010	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Sodium, Total	44.1		mg/l	0.100	0.0150	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Vanadium, Total	0.00172	J	mg/l	0.00500	0.00010	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
Zinc, Total	0.00122	J	mg/l	0.01000	0.00120	1	05/16/13 08:18	05/17/13 13:37	EPA 3005A	1,6020A	AK
<b>Dissolved Metals - Westborough Lab</b>											
Aluminum, Dissolved	0.00234	J	mg/l	0.0100	0.00200	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Antimony, Dissolved	0.00078	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Arsenic, Dissolved	0.00086		mg/l	0.00050	0.00020	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Barium, Dissolved	0.09532		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

**Lab ID:** L1308725-01  
**Client ID:** MW-3  
**Sample Location:** NYC  
**Matrix:** Water

**Date Collected:** 05/15/13 11:20  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	238.		mg/l	1.00	0.320	10	05/16/13 06:51	05/18/13 10:56	NA	1,6020A	AK
Chromium, Dissolved	ND		mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Cobalt, Dissolved	0.00132		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Copper, Dissolved	0.00072	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Iron, Dissolved	0.144		mg/l	0.0500	0.0130	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Magnesium, Dissolved	46.9		mg/l	1.00	0.230	10	05/16/13 06:51	05/18/13 10:56	NA	1,6020A	AK
Manganese, Dissolved	2.062		mg/l	0.00500	0.00100	10	05/16/13 06:51	05/18/13 10:56	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	05/20/13 15:23	05/21/13 11:04	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.00172		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Potassium, Dissolved	23.0		mg/l	0.100	0.0270	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Selenium, Dissolved	0.00156	J	mg/l	0.00500	0.00030	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Sodium, Dissolved	43.7		mg/l	0.100	0.0150	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Vanadium, Dissolved	0.00038	J	mg/l	0.00500	0.00010	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK
Zinc, Dissolved	0.01100		mg/l	0.01000	0.00120	1	05/16/13 06:51	05/18/13 11:03	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

Lab ID: L1308725-02  
 Client ID: FN-X  
 Sample Location: NYC  
 Matrix: Water

Date Collected: 05/15/13 15:20  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	0.374		mg/l	0.0100	0.00200	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Antimony, Total	0.00025	J	mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00383		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Barium, Total	0.2883		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Calcium, Total	171.		mg/l	1.00	0.320	10	05/16/13 08:18	05/17/13 13:40	EPA 3005A	1,6020A	AK
Chromium, Total	0.00033	J	mg/l	0.00100	0.00020	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Cobalt, Total	0.00058		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Copper, Total	0.00076	J	mg/l	0.00150	0.00010	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Iron, Total	14.0		mg/l	0.0500	0.0130	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Lead, Total	0.00885		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Magnesium, Total	39.9		mg/l	1.00	0.230	10	05/16/13 08:18	05/17/13 13:40	EPA 3005A	1,6020A	AK
Manganese, Total	4.061		mg/l	0.00500	0.00100	10	05/16/13 08:18	05/17/13 13:40	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/17/13 10:03	05/20/13 10:39	EPA 7470A	1,7470A	JH
Nickel, Total	0.00117		mg/l	0.00100	0.00010	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Potassium, Total	36.4		mg/l	0.100	0.0270	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.00500	0.00030	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Silver, Total	0.00080		mg/l	0.00040	0.00010	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Sodium, Total	225.		mg/l	0.100	0.0150	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Vanadium, Total	0.00130	J	mg/l	0.00500	0.00010	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK
Zinc, Total	0.01014		mg/l	0.01000	0.00120	1	05/16/13 08:18	05/17/13 13:43	EPA 3005A	1,6020A	AK

**Dissolved Metals - Westborough Lab**

Aluminum, Dissolved	0.0706		mg/l	0.0100	0.00200	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Antimony, Dissolved	0.00082	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Arsenic, Dissolved	0.00375		mg/l	0.00050	0.00020	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Barium, Dissolved	0.2715		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

**Lab ID:** L1308725-02  
**Client ID:** FN-X  
**Sample Location:** NYC  
**Matrix:** Water

**Date Collected:** 05/15/13 15:20  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	157.		mg/l	1.00	0.320	10	05/16/13 06:51	05/18/13 11:16	NA	1,6020A	AK
Chromium, Dissolved	0.00062	J	mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Cobalt, Dissolved	0.00038	J	mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Copper, Dissolved	0.00078	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Iron, Dissolved	13.5		mg/l	0.0500	0.0130	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Lead, Dissolved	0.00105		mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Magnesium, Dissolved	39.4		mg/l	0.100	0.0230	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Manganese, Dissolved	3.882		mg/l	0.00500	0.00100	10	05/16/13 06:51	05/18/13 11:16	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	05/20/13 15:23	05/21/13 11:10	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.00078		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Potassium, Dissolved	34.4		mg/l	0.100	0.0270	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Silver, Dissolved	0.00015	J	mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Sodium, Dissolved	207.		mg/l	1.00	0.150	10	05/16/13 06:51	05/18/13 11:16	NA	1,6020A	AK
Thallium, Dissolved	0.00009	J	mg/l	0.00050	0.00003	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Vanadium, Dissolved	0.00050	J	mg/l	0.00500	0.00010	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK
Zinc, Dissolved	0.01106		mg/l	0.01000	0.00120	1	05/16/13 06:51	05/18/13 11:27	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

Lab ID: L1308725-03  
 Client ID: MW-2  
 Sample Location: NYC  
 Matrix: Water

Date Collected: 05/15/13 13:10  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	5.54		mg/l	0.500	0.100	50	05/16/13 08:18	05/17/13 13:54	EPA 3005A	1,6020A	AK
Antimony, Total	0.00109		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00469		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Barium, Total	0.3498		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Beryllium, Total	0.00033	J	mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Cadmium, Total	0.00023		mg/l	0.00020	0.00005	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Calcium, Total	198.		mg/l	1.00	0.320	10	05/16/13 08:18	05/17/13 13:47	EPA 3005A	1,6020A	AK
Chromium, Total	0.01385		mg/l	0.00100	0.00020	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Cobalt, Total	0.00560		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Copper, Total	0.02539		mg/l	0.00150	0.00010	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Iron, Total	8.74		mg/l	0.0500	0.0130	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Lead, Total	0.4843		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Magnesium, Total	38.6		mg/l	0.100	0.0230	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Manganese, Total	4.035		mg/l	0.00500	0.00100	10	05/16/13 08:18	05/17/13 13:47	EPA 3005A	1,6020A	AK
Mercury, Total	0.00066		mg/l	0.00020	0.00006	1	05/17/13 10:03	05/20/13 10:41	EPA 7470A	1,7470A	JH
Nickel, Total	0.01092		mg/l	0.00100	0.00010	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Potassium, Total	31.6		mg/l	0.100	0.0270	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Selenium, Total	0.00110	J	mg/l	0.00500	0.00030	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Silver, Total	0.00031	J	mg/l	0.00040	0.00010	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Sodium, Total	85.6		mg/l	1.00	0.150	10	05/16/13 08:18	05/17/13 13:47	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Vanadium, Total	0.01534		mg/l	0.00500	0.00010	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK
Zinc, Total	0.1715		mg/l	0.01000	0.00120	1	05/16/13 08:18	05/17/13 13:50	EPA 3005A	1,6020A	AK

**Dissolved Metals - Westborough Lab**

Aluminum, Dissolved	0.0766		mg/l	0.0100	0.00200	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Antimony, Dissolved	0.00112		mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Arsenic, Dissolved	0.00150		mg/l	0.00050	0.00020	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Barium, Dissolved	0.06444		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

**Lab ID:** L1308725-03  
**Client ID:** MW-2  
**Sample Location:** NYC  
**Matrix:** Water

**Date Collected:** 05/15/13 13:10  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	174.		mg/l	1.00	0.320	10	05/16/13 06:51	05/18/13 11:30	NA	1,6020A	AK
Chromium, Dissolved	0.00043	J	mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Cobalt, Dissolved	0.00105		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Copper, Dissolved	0.00070	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Iron, Dissolved	0.165		mg/l	0.0500	0.0130	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Lead, Dissolved	0.01518		mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Magnesium, Dissolved	31.4		mg/l	0.100	0.0230	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Manganese, Dissolved	3.389		mg/l	0.00500	0.00100	10	05/16/13 06:51	05/18/13 11:30	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	05/20/13 15:23	05/21/13 11:12	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.00124		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Potassium, Dissolved	27.9		mg/l	0.100	0.0270	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Selenium, Dissolved	0.00064	J	mg/l	0.00500	0.00030	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Sodium, Dissolved	83.4		mg/l	1.00	0.150	10	05/16/13 06:51	05/18/13 11:30	NA	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Vanadium, Dissolved	0.00283	J	mg/l	0.00500	0.00010	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK
Zinc, Dissolved	0.00411	J	mg/l	0.01000	0.00120	1	05/16/13 06:51	05/18/13 11:33	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

Lab ID: L1308725-04  
 Client ID: MW-1  
 Sample Location: NYC  
 Matrix: Water

Date Collected: 05/15/13 14:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	6.32		mg/l	0.500	0.100	50	05/16/13 08:18	05/17/13 14:17	EPA 3005A	1,6020A	AK
Antimony, Total	0.00031	J	mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00565		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Barium, Total	0.6268		mg/l	0.00500	0.00100	10	05/16/13 08:18	05/17/13 13:57	EPA 3005A	1,6020A	AK
Beryllium, Total	0.00051		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Calcium, Total	226.		mg/l	1.00	0.320	10	05/16/13 08:18	05/17/13 13:57	EPA 3005A	1,6020A	AK
Chromium, Total	0.01266		mg/l	0.00100	0.00020	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Cobalt, Total	0.00583		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Copper, Total	0.01631		mg/l	0.00150	0.00010	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Iron, Total	22.2		mg/l	0.0500	0.0130	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Lead, Total	0.03801		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Magnesium, Total	51.7		mg/l	1.00	0.230	10	05/16/13 08:18	05/17/13 13:57	EPA 3005A	1,6020A	AK
Manganese, Total	4.097		mg/l	0.00500	0.00100	10	05/16/13 08:18	05/17/13 13:57	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/17/13 10:03	05/20/13 10:43	EPA 7470A	1,7470A	JH
Nickel, Total	0.00980		mg/l	0.00100	0.00010	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Potassium, Total	44.4		mg/l	0.100	0.0270	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Selenium, Total	0.00106	J	mg/l	0.00500	0.00030	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00040	0.00010	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Sodium, Total	366.		mg/l	1.00	0.150	10	05/16/13 08:18	05/17/13 13:57	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Vanadium, Total	0.02354		mg/l	0.00500	0.00010	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK
Zinc, Total	0.02149		mg/l	0.01000	0.00120	1	05/16/13 08:18	05/17/13 14:00	EPA 3005A	1,6020A	AK

**Dissolved Metals - Westborough Lab**

Aluminum, Dissolved	0.0470		mg/l	0.0100	0.00200	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Antimony, Dissolved	0.00057	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Arsenic, Dissolved	0.00122		mg/l	0.00050	0.00020	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Barium, Dissolved	0.4639		mg/l	0.00500	0.00100	10	05/16/13 06:51	05/18/13 11:37	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

**Lab ID:** L1308725-04  
**Client ID:** MW-1  
**Sample Location:** NYC  
**Matrix:** Water

**Date Collected:** 05/15/13 14:15  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	218.		mg/l	1.00	0.320	10	05/16/13 06:51	05/18/13 11:37	NA	1,6020A	AK
Chromium, Dissolved	0.00025	J	mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Cobalt, Dissolved	0.00131		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Copper, Dissolved	0.00023	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Iron, Dissolved	0.959		mg/l	0.0500	0.0130	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Lead, Dissolved	0.00050	J	mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Magnesium, Dissolved	48.6		mg/l	1.00	0.230	10	05/16/13 06:51	05/18/13 11:37	NA	1,6020A	AK
Manganese, Dissolved	3.477		mg/l	0.00500	0.00100	10	05/16/13 06:51	05/18/13 11:37	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	05/20/13 15:23	05/21/13 11:13	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.00182		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Potassium, Dissolved	40.7		mg/l	0.100	0.0270	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Selenium, Dissolved	0.00044	J	mg/l	0.00500	0.00030	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Sodium, Dissolved	360.		mg/l	1.00	0.150	10	05/16/13 06:51	05/18/13 11:37	NA	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Vanadium, Dissolved	0.00033	J	mg/l	0.00500	0.00010	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK
Zinc, Dissolved	ND		mg/l	0.01000	0.00120	1	05/16/13 06:51	05/18/13 11:40	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

Lab ID: L1308725-05  
 Client ID: DUP  
 Sample Location: NYC  
 Matrix: Water

Date Collected: 05/15/13 14:30  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	11.1		mg/l	1.00	0.200	100	05/16/13 08:18	05/17/13 14:27	EPA 3005A	1,6020A	AK
Antimony, Total	0.00039	J	mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00773		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Barium, Total	0.7242		mg/l	0.00500	0.00100	10	05/16/13 08:18	05/17/13 14:21	EPA 3005A	1,6020A	AK
Beryllium, Total	0.00111		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Cadmium, Total	0.00025		mg/l	0.00020	0.00005	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Calcium, Total	223.		mg/l	1.00	0.320	10	05/16/13 08:18	05/17/13 14:21	EPA 3005A	1,6020A	AK
Chromium, Total	0.02187		mg/l	0.00100	0.00020	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Cobalt, Total	0.00993		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Copper, Total	0.03159		mg/l	0.00150	0.00010	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Iron, Total	29.5		mg/l	0.0500	0.0130	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Lead, Total	0.2570		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Magnesium, Total	51.9		mg/l	1.00	0.230	10	05/16/13 08:18	05/17/13 14:21	EPA 3005A	1,6020A	AK
Manganese, Total	4.607		mg/l	0.00500	0.00100	10	05/16/13 08:18	05/17/13 14:21	EPA 3005A	1,6020A	AK
Mercury, Total	0.00040		mg/l	0.00020	0.00006	1	05/17/13 10:03	05/20/13 10:45	EPA 7470A	1,7470A	JH
Nickel, Total	0.01635		mg/l	0.00100	0.00010	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Potassium, Total	45.2		mg/l	0.100	0.0270	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Selenium, Total	0.00165	J	mg/l	0.00500	0.00030	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00040	0.00010	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Sodium, Total	359.		mg/l	1.00	0.150	10	05/16/13 08:18	05/17/13 14:21	EPA 3005A	1,6020A	AK
Thallium, Total	0.00005	J	mg/l	0.00050	0.00003	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Vanadium, Total	0.04392		mg/l	0.00500	0.00010	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
Zinc, Total	0.09113		mg/l	0.01000	0.00120	1	05/16/13 08:18	05/17/13 14:24	EPA 3005A	1,6020A	AK
<b>Dissolved Metals - Westborough Lab</b>											
Aluminum, Dissolved	0.0170		mg/l	0.0100	0.00200	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Antimony, Dissolved	0.00065	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Arsenic, Dissolved	0.00106		mg/l	0.00050	0.00020	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Barium, Dissolved	0.4565		mg/l	0.00500	0.00100	10	05/16/13 06:51	05/18/13 11:43	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

**Lab ID:** L1308725-05  
**Client ID:** DUP  
**Sample Location:** NYC  
**Matrix:** Water

**Date Collected:** 05/15/13 14:30  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	206.		mg/l	1.00	0.320	10	05/16/13 06:51	05/18/13 11:43	NA	1,6020A	AK
Chromium, Dissolved	ND		mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Cobalt, Dissolved	0.00156		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Copper, Dissolved	ND		mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Iron, Dissolved	0.895		mg/l	0.0500	0.0130	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Lead, Dissolved	0.00046	J	mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Magnesium, Dissolved	48.3		mg/l	1.00	0.230	10	05/16/13 06:51	05/18/13 11:43	NA	1,6020A	AK
Manganese, Dissolved	3.828		mg/l	0.00500	0.00100	10	05/16/13 06:51	05/18/13 11:43	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	05/20/13 15:23	05/21/13 11:15	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.00195		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Potassium, Dissolved	41.2		mg/l	0.100	0.0270	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Selenium, Dissolved	0.00037	J	mg/l	0.00500	0.00030	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Sodium, Dissolved	357.		mg/l	1.00	0.150	10	05/16/13 06:51	05/18/13 11:43	NA	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Vanadium, Dissolved	0.00025	J	mg/l	0.00500	0.00010	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK
Zinc, Dissolved	ND		mg/l	0.01000	0.00120	1	05/16/13 06:51	05/18/13 11:47	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

Lab ID: L1308725-06  
 Client ID: FIELD BLANK  
 Sample Location: NYC  
 Matrix: Water

Date Collected: 05/15/13 15:15  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Antimony, Total	0.00011	J	mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Barium, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.0320	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Chromium, Total	ND		mg/l	0.00100	0.00020	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Copper, Total	ND		mg/l	0.00150	0.00010	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Iron, Total	ND		mg/l	0.0500	0.0130	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.0230	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Manganese, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/17/13 10:03	05/20/13 10:46	EPA 7470A	1,7470A	JH
Nickel, Total	ND		mg/l	0.00100	0.00010	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.0270	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.00500	0.00030	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00040	0.00010	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Sodium, Total	0.0501	J	mg/l	0.100	0.0150	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK
Zinc, Total	ND		mg/l	0.01000	0.00120	1	05/16/13 08:18	05/17/13 13:03	EPA 3005A	1,6020A	AK

**Dissolved Metals - Westborough Lab**

Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Antimony, Dissolved	0.00073	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Arsenic, Dissolved	ND		mg/l	0.00050	0.00020	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

**Lab ID:** L1308725-06  
**Client ID:** FIELD BLANK  
**Sample Location:** NYC  
**Matrix:** Water

**Date Collected:** 05/15/13 15:15  
**Date Received:** 05/15/13  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Chromium, Dissolved	ND		mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Cobalt, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Copper, Dissolved	ND		mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Iron, Dissolved	ND		mg/l	0.0500	0.0130	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Magnesium, Dissolved	ND		mg/l	0.100	0.0230	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Manganese, Dissolved	0.00015	J	mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	05/20/13 15:23	05/21/13 11:17	EPA 7470A	1,7470A	JH
Nickel, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Sodium, Dissolved	0.0889	J	mg/l	0.100	0.0150	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK
Zinc, Dissolved	ND		mg/l	0.01000	0.00120	1	05/16/13 06:51	05/18/13 10:50	NA	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

## 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: WG608377-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Antimony, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Barium, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.0320	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Chromium, Total	ND		mg/l	0.00100	0.00020	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Copper, Total	ND		mg/l	0.00150	0.00010	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Iron, Total	ND		mg/l	0.0500	0.0130	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Lead, Total	ND		mg/l	0.00050	0.00020	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.0230	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Manganese, Total	ND		mg/l	0.00050	0.00010	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Nickel, Total	ND		mg/l	0.00100	0.00010	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.0270	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Selenium, Total	ND		mg/l	0.00500	0.00030	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Silver, Total	ND		mg/l	0.00040	0.00010	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Sodium, Total	ND		mg/l	0.100	0.0150	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK
Zinc, Total	ND		mg/l	0.01000	0.00120	1	05/16/13 08:18	05/17/13 12:59	1,6020A	AK

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-06 Batch: WG608435-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Antimony, Dissolved	0.00075	J	mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Arsenic, Dissolved	ND		mg/l	0.00050	0.00020	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

### Method Blank Analysis Batch Quality Control

Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.00050	0.00005	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Chromium, Dissolved	ND		mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Cobalt, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Copper, Dissolved	ND		mg/l	0.00100	0.00010	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Iron, Dissolved	ND		mg/l	0.0500	0.0130	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Magnesium, Dissolved	ND		mg/l	0.100	0.0230	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Manganese, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Nickel, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.00050	0.00010	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Sodium, Dissolved	0.0342	J	mg/l	0.100	0.0150	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Thallium, Dissolved	0.00012	J	mg/l	0.00050	0.00003	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK
Zinc, Dissolved	0.00980	J	mg/l	0.01000	0.00120	1	05/16/13 06:51	05/18/13 10:46	1,6020A	AK

#### Prep Information

Digestion Method: NA

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: WG608873-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/17/13 10:03	05/20/13 10:26	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): 01-06 Batch: WG608874-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	05/20/13 15:23	05/21/13 10:45	1,7470A	JH



**Project Name:** 522-532 W. 29TH ST.

**Lab Number:** L1308725

**Project Number:** 41.0162122.00

**Report Date:** 05/22/13

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

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Digestion Method: EPA 7470A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG608377-2									
Aluminum, Total	100		-		80-120		-		
Antimony, Total	91		-		80-120		-		
Arsenic, Total	102		-		80-120		-		
Barium, Total	91		-		80-120		-		
Beryllium, Total	99		-		80-120		-		
Cadmium, Total	115		-		80-120		-		
Calcium, Total	94		-		80-120		-		
Chromium, Total	86		-		80-120		-		
Cobalt, Total	94		-		80-120		-		
Copper, Total	93		-		80-120		-		
Iron, Total	88		-		80-120		-		
Lead, Total	97		-		80-120		-		
Magnesium, Total	93		-		80-120		-		
Manganese, Total	92		-		80-120		-		
Nickel, Total	93		-		80-120		-		
Potassium, Total	91		-		80-120		-		
Selenium, Total	112		-		80-120		-		
Silver, Total	94		-		80-120		-		
Sodium, Total	90		-		80-120		-		
Thallium, Total	98		-		80-120		-		
Vanadium, Total	94		-		80-120		-		



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.

**Project Number:** 41.0162122.00

**Lab Number:** L1308725

**Report Date:** 05/22/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG608377-2					
Zinc, Total	108	-	80-120	-	



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS %Recovery	LCS %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG608435-2					
Aluminum, Dissolved	110	-	80-120	-	
Antimony, Dissolved	95	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	90	-	80-120	-	
Beryllium, Dissolved	106	-	80-120	-	
Cadmium, Dissolved	109	-	80-120	-	
Calcium, Dissolved	100	-	80-120	-	
Chromium, Dissolved	92	-	80-120	-	
Cobalt, Dissolved	95	-	80-120	-	
Copper, Dissolved	98	-	80-120	-	
Iron, Dissolved	103	-	80-120	-	
Lead, Dissolved	101	-	80-120	-	
Magnesium, Dissolved	104	-	80-120	-	
Manganese, Dissolved	91	-	80-120	-	
Nickel, Dissolved	98	-	80-120	-	
Potassium, Dissolved	96	-	80-120	-	
Selenium, Dissolved	105	-	80-120	-	
Silver, Dissolved	111	-	80-120	-	
Sodium, Dissolved	107	-	80-120	-	
Thallium, Dissolved	104	-	80-120	-	
Vanadium, Dissolved	94	-	80-120	-	



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	LCS %Recovery	LCS %Recovery	%Recovery Limits	RPD	RPD Limits
<b>Dissolved Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG608435-2</b>					
Zinc, Dissolved	106	-	80-120	-	
<b>Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG608873-2</b>					
Mercury, Total	109	-	80-120	-	
<b>Dissolved Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG608874-2</b>					
Mercury, Dissolved	111	-	70-130	-	



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608377-4 QC Sample: L1308665-01 Client ID: MS Sample										
Aluminum, Total	0.103	2	2.23	106	-	-	-	80-120	-	20
Antimony, Total	0.00082	0.5	0.4912	98	-	-	-	80-120	-	20
Arsenic, Total	0.00153	0.12	0.1296	107	-	-	-	80-120	-	20
Barium, Total	0.1145	2	2.015	95	-	-	-	80-120	-	20
Beryllium, Total	ND	0.05	0.04819	96	-	-	-	80-120	-	20
Cadmium, Total	ND	0.051	0.05526	108	-	-	-	80-120	-	20
Calcium, Total	153.	10	161	80	-	-	-	80-120	-	20
Chromium, Total	ND	0.2	0.1730	86	-	-	-	80-120	-	20
Cobalt, Total	0.0015	0.5	0.4763	95	-	-	-	80-120	-	20
Copper, Total	0.01095	0.25	0.2395	91	-	-	-	80-120	-	20
Iron, Total	8.16	1	9.00	84	-	-	-	80-120	-	20
Lead, Total	0.00145	0.51	0.5292	103	-	-	-	80-120	-	20
Magnesium, Total	43.7	10	54.0	103	-	-	-	80-120	-	20
Manganese, Total	3.074	0.5	3.569	99	-	-	-	80-120	-	20
Nickel, Total	0.00084J	0.5	0.4631	93	-	-	-	80-120	-	20
Potassium, Total	42.1	10	52.0	99	-	-	-	80-120	-	20
Selenium, Total	ND	0.12	0.128	107	-	-	-	80-120	-	20
Silver, Total	ND	0.05	0.04710	94	-	-	-	80-120	-	20
Sodium, Total	639.	10	979	<b>3400</b>	Q	-	-	80-120	-	20
Thallium, Total	ND	0.12	0.1157	96	-	-	-	80-120	-	20
Vanadium, Total	0.001J	0.5	0.4964	99	-	-	-	80-120	-	20



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
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Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608377-4 QC Sample: L1308665-01 Client ID: MS Sample

Zinc, Total	0.01374	0.5	0.5186	101	-	-	80-120	20
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**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608435-4 QC Sample: L1308725-01 Client ID: MW-3								
Aluminum, Dissolved	0.00234J	2	2.07	104	-	-	80-120	20
Antimony, Dissolved	0.00078J	0.5	0.4601	92	-	-	80-120	20
Arsenic, Dissolved	0.00086	0.12	0.1237	102	-	-	80-120	20
Barium, Dissolved	0.09532	2	1.856	88	-	-	80-120	20
Beryllium, Dissolved	ND	0.05	0.04930	99	-	-	80-120	20
Cadmium, Dissolved	ND	0.051	0.05383	106	-	-	80-120	20
Calcium, Dissolved	238.	10	251	130	Q	-	80-120	20
Chromium, Dissolved	ND	0.2	0.1790	90	-	-	80-120	20
Cobalt, Dissolved	0.00132	0.5	0.4653	93	-	-	80-120	20
Copper, Dissolved	0.00072J	0.25	0.2387	95	-	-	80-120	20
Iron, Dissolved	0.144	1	0.992	85	-	-	80-120	20
Lead, Dissolved	ND	0.51	0.4984	98	-	-	80-120	20
Magnesium, Dissolved	46.9	10	62.8	159	Q	-	80-120	20
Manganese, Dissolved	2.062	0.5	2.406	69	Q	-	80-120	20
Nickel, Dissolved	0.00172	0.5	0.4754	95	-	-	80-120	20
Potassium, Dissolved	23.0	10	31.0	80	-	-	80-120	20
Selenium, Dissolved	0.00156J	0.12	0.119	99	-	-	80-120	20
Silver, Dissolved	ND	0.05	0.04568	91	-	-	80-120	20
Sodium, Dissolved	43.7	10	53.8	101	-	-	80-120	20
Thallium, Dissolved	ND	0.12	0.1186	99	-	-	80-120	20
Vanadium, Dissolved	0.00038J	0.5	0.4658	93	-	-	80-120	20



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
<b>Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608435-4 QC Sample: L1308725-01 Client ID: MW-3</b>								
Zinc, Dissolved	0.01100	0.5	0.5058	99	-	-	80-120	20
<b>Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608873-4 QC Sample: L1308725-01 Client ID: MW-3</b>								
Mercury, Total	ND	0.001	0.00121	121	-	-	70-130	20
<b>Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608874-4 QC Sample: L1308725-01 Client ID: MW-3</b>								
Mercury, Dissolved	ND	0.001	0.00113	114	-	-	70-130	20



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608377-3 QC Sample: L1308665-01 Client ID: DUP Sample</b>						
Antimony, Total	0.00082	0.00055	mg/l	40	Q	20
Arsenic, Total	0.00153	0.00151	mg/l	2		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	0.01095	0.01074	mg/l	2		20
Lead, Total	0.00145	0.00148	mg/l	2		20
Nickel, Total	0.00084J	0.00090J	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.01374	0.01392	mg/l	1		20
<b>Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608435-3 QC Sample: L1308725-01 Client ID: MW-3</b>						
Calcium, Dissolved	238.	246.	mg/l	3		20
Magnesium, Dissolved	46.9	48.8	mg/l	4		20
Manganese, Dissolved	2.062	2.111	mg/l	2		20



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608435-3 QC Sample: L1308725-01 Client ID: MW-3</b>					
Aluminum, Dissolved	0.00234J	0.00315J	mg/l	NC	20
Antimony, Dissolved	0.00078J	0.00077J	mg/l	NC	20
Arsenic, Dissolved	0.00086	0.00081	mg/l	5	20
Barium, Dissolved	0.09532	0.09555	mg/l	0	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Cobalt, Dissolved	0.00132	0.00129	mg/l	2	20
Copper, Dissolved	0.00072J	0.00075J	mg/l	NC	20
Iron, Dissolved	0.144	0.144	mg/l	0	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Nickel, Dissolved	0.00172	0.00175	mg/l	2	20
Potassium, Dissolved	23.0	22.9	mg/l	0	20
Selenium, Dissolved	0.00156J	0.00150J	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	43.7	45.2	mg/l	3	20
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	0.00038J	0.00040J	mg/l	NC	20
Zinc, Dissolved	0.01100	0.00894J	mg/l	NC	20



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608873-3 QC Sample: L1308725-01 Client ID: MW-3</b>					
Mercury, Total	ND	ND	mg/l	NC	20
<b>Dissolved Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG608874-3 QC Sample: L1308725-01 Client ID: MW-3</b>					
Mercury, Dissolved	ND	ND	mg/l	NC	20



Project Name: 522-532 W. 29TH ST.

Lab Number: L1308725

Project Number: 41.0162122.00

Report Date: 05/22/13

## 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

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308725-01A	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-01B	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-01C	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-01D	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-01E	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-01F	Plastic 500ml unpreserved	B	7	3.6	Y	Absent	-
L1308725-01G	Plastic 500ml HNO3 preserved	B	<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)
L1308725-01H	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	PCB-8082(7)
L1308725-01I	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	PCB-8082(7)
L1308725-01X	Plastic 250ml HNO3 preserved spl	B	<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)
L1308725-02A	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-02B	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days



Project Name: 522-532 W. 29TH ST.

Project Number: 41.0162122.00

Lab Number: L1308725

Report Date: 05/22/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308725-02D	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-02E	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-02F	Plastic 500ml unpreserved	B	7	3.6	Y	Absent	-
L1308725-02G	Plastic 500ml HNO3 preserved	B	<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)
L1308725-02X	Plastic 250ml HNO3 preserved spl	B	<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)
L1308725-03A	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-03B	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-03C	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-03D	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-03E	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-03F	Plastic 500ml unpreserved	B	7	3.6	Y	Absent	-
L1308725-03G	Plastic 500ml HNO3 preserved	B	<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)

\*Values in parentheses indicate holding time in days



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

**Lab Number:** L1308725  
**Report Date:** 05/22/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308725-03X	Plastic 250ml HNO3 preserved spl	B	<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)
L1308725-04A	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1308725-04B	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1308725-04C	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1308725-04D	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-04E	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-04F	Plastic 500ml unpreserved	A	7	2.3	Y	Absent	-
L1308725-04G	Plastic 500ml HNO3 preserved	A	<2	2.3	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)
L1308725-04H	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	PCB-8082(7)
L1308725-04I	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	PCB-8082(7)
L1308725-04X	Plastic 250ml HNO3 preserved spl	A	<2	2.3	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)
L1308725-05A	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1308725-05B	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1308725-05C	Vial HCl preserved	A	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1308725-05D	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)

\*Values in parentheses indicate holding time in days



Project Name: 522-532 W. 29TH ST.

Project Number: 41.0162122.00

Lab Number: L1308725

Report Date: 05/22/13

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308725-05E	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-05F	Plastic 500ml unpreserved	A	7	2.3	Y	Absent	-
L1308725-05G	Plastic 500ml HNO3 preserved	A	<2	2.3	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)
L1308725-05H	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	PCB-8082(7)
L1308725-05I	Amber 1000ml unpreserved	A	7	2.3	Y	Absent	PCB-8082(7)
L1308725-05X	Plastic 250ml HNO3 preserved spl	A	<2	2.3	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)
L1308725-06A	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-06B	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-06C	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-06D	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-06E	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1308725-06F	Plastic 500ml unpreserved	B	7	3.6	Y	Absent	-
L1308725-06G	Plastic 500ml HNO3 preserved	B	<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)
L1308725-06H	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	PCB-8082(7)
L1308725-06I	Amber 1000ml unpreserved	B	7	3.6	Y	Absent	PCB-8082(7)

\*Values in parentheses indicate holding time in days



Project Name: 522-532 W. 29TH ST.

Project Number: 41.0162122.00

Lab Number: L1308725

Report Date: 05/22/13

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308725-06X	Plastic 250ml HNO3 preserved spl	B	<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)
L1308725-07A	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1308725-07B	Vial HCl preserved	B	N/A	3.6	Y	Absent	NYTCL-8260(14)

**Container Comments**

L1308725-01X

\*Values in parentheses indicate holding time in days



**Project Name:** 522-532 W. 29TH ST.  
**Project Number:** 41.0162122.00

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**Report Date:** 05/22/13

## 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:** 522-532 W. 29TH ST.  
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#### 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

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## 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, 4500CI-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-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, 4500NO3-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, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-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 4500NH3-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, 4500NH3-H, 4500NO2B, 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, 4500NO3-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, 4500CI-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, 4500NO3-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.)

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

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

### Project Information

Project Name: 522-532 W 29th St  
Project Location: NYC  
Project #: 41.0162122.00  
Project Manager: James Bellew  
ALPHA Quote #:

### Client Information

Client: GZA  
Address: 104 W 29th St  
10th Floor  
Phone: 212-594-8140  
Fax: 212-279-8180  
Email: James.Bellew@gza.com

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)

Date Due: 5/22/13 Time:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Serial No: 052213146-30

Date Rec'd in Lab: 5/15/13

ALPHA Job #: L130872S

### 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

TOTAL # BOTTLES

### SAMPLE HANDLING

- Filtration \_\_\_\_\_
  - Done
  - Not needed
  - Lab to do
  - Preservation \_\_\_\_\_
  - Lab to do
- (Please specify below)

Sample Specific Comments

ANALYSIS

VOCs / BNA

8VOCs

TAL Metals (dissolved)

PCBs

TOTAL TAL Metals

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS	TOTAL # BOTTLES
0872S-01	MW-3	5/15/13	11:20	GW	ED	X	9
-02	<del>MW-3</del> FN-7	5/15/13	15:30	GW	ED	X	6
-03	MW-2	5/15/13	13:10	GW	ED	X	7
-04	MW-1	5/15/13	14:15	GW	ED	X	9
-05	DUP	5/15/13	14:30	GW	ED	X	9
-06	Field Blank	5/15/13	15:15		ED	X	9
-07	Trip Blank	5/15/13			ED	X	9

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.

Container Type	Container Preservative	Date/Time	Received By
GAP	PAP	5/15/13 15:30	[Signature]
BA	ACA	5/15/13 1900	[Signature]
		5/15/13 23:40	[Signature]



## ANALYTICAL REPORT

Lab Number:	L1308732
Client:	GZA GeoEnvironmental, Inc. 104 West 29th Street, 10th Floor New York, NY 10001
ATTN:	James Bellew
Phone:	(212) 594-8140
Project Name:	522-532 W 29TH
Project Number:	41.0162122.00
Report Date:	05/22/13

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.

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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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1308732-01	SV-5	NYC	05/15/13 08:54

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

### 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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on May 10, 2013. The canister certification results are provided as an addendum.

Sample L1308732-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Sample L1308732-01 The presence of Acetone and 4-Methyl-2-Pentanone could not be determined in this sample due to a non-target compound interfering with the identification and quantification of this compound.

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: 05/22/13

**AIR**

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

### SAMPLE RESULTS

Lab ID: L1308732-01 D  
 Client ID: SV-5  
 Sample Location: NYC  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 05/19/13 00:50  
 Analyst: RY

Date Collected: 05/15/13 08:54  
 Date Received: 05/15/13  
 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	106	--	ND	182	--		211.9
Dichlorodifluoromethane	ND	42.4	--	ND	210	--		211.9
Chloromethane	ND	42.4	--	ND	87.6	--		211.9
Freon-114	ND	42.4	--	ND	296	--		211.9
Vinyl chloride	ND	42.4	--	ND	108	--		211.9
1,3-Butadiene	ND	42.4	--	ND	93.8	--		211.9
Bromomethane	ND	42.4	--	ND	165	--		211.9
Chloroethane	ND	42.4	--	ND	112	--		211.9
Ethanol	ND	530	--	ND	999	--		211.9
Vinyl bromide	ND	42.4	--	ND	185	--		211.9
Acetone	ND	212.	--	ND	504	--		211.9
Trichlorofluoromethane	ND	42.4	--	ND	238	--		211.9
Isopropanol	ND	106	--	ND	261	--		211.9
1,1-Dichloroethene	ND	42.4	--	ND	168	--		211.9
Methylene chloride	ND	212	--	ND	736	--		211.9
3-Chloropropene	ND	42.4	--	ND	133	--		211.9
Carbon disulfide	ND	42.4	--	ND	132	--		211.9
Freon-113	ND	42.4	--	ND	325	--		211.9
trans-1,2-Dichloroethene	ND	42.4	--	ND	168	--		211.9
1,1-Dichloroethane	ND	42.4	--	ND	172	--		211.9
Methyl tert butyl ether	ND	42.4	--	ND	153	--		211.9
Vinyl acetate	ND	42.4	--	ND	149	--		211.9
2-Butanone	ND	42.4	--	ND	125	--		211.9
cis-1,2-Dichloroethene	ND	42.4	--	ND	168	--		211.9



**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

**SAMPLE RESULTS**

Lab ID: L1308732-01 D  
 Client ID: SV-5  
 Sample Location: NYC

Date Collected: 05/15/13 08:54  
 Date Received: 05/15/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	106.	--	ND	382	--		211.9
Chloroform	ND	42.4	--	ND	207	--		211.9
Tetrahydrofuran	ND	42.4	--	ND	125	--		211.9
1,2-Dichloroethane	ND	42.4	--	ND	172	--		211.9
n-Hexane	2220	42.4	--	7820	149	--		211.9
1,1,1-Trichloroethane	ND	42.4	--	ND	231	--		211.9
Benzene	213	42.4	--	680	135	--		211.9
Carbon tetrachloride	ND	42.4	--	ND	267	--		211.9
Cyclohexane	1220	42.4	--	4200	146	--		211.9
1,2-Dichloropropane	ND	42.4	--	ND	196	--		211.9
Bromodichloromethane	ND	42.4	--	ND	284	--		211.9
1,4-Dioxane	ND	42.4	--	ND	153	--		211.9
Trichloroethene	ND	42.4	--	ND	228	--		211.9
2,2,4-Trimethylpentane	11700	42.4	--	54600	198	--		211.9
Heptane	1980	42.4	--	8110	174	--		211.9
cis-1,3-Dichloropropene	ND	42.4	--	ND	192	--		211.9
4-Methyl-2-pentanone	ND	42.4	--	ND	174	--		211.9
trans-1,3-Dichloropropene	ND	42.4	--	ND	192	--		211.9
1,1,2-Trichloroethane	ND	42.4	--	ND	231	--		211.9
Toluene	65.0	42.4	--	245	160	--		211.9
2-Hexanone	ND	42.4	--	ND	174	--		211.9
Dibromochloromethane	ND	42.4	--	ND	361	--		211.9
1,2-Dibromoethane	ND	42.4	--	ND	326	--		211.9
Tetrachloroethene	ND	42.4	--	ND	288	--		211.9
Chlorobenzene	ND	42.4	--	ND	195	--		211.9
Ethylbenzene	2560	42.4	--	11100	184	--		211.9
p/m-Xylene	236	84.8	--	1030	368	--		211.9
Bromoform	ND	42.4	--	ND	438	--		211.9



**Project Name:** 522-532 W 29TH**Lab Number:** L1308732**Project Number:** 41.0162122.00**Report Date:** 05/22/13**SAMPLE RESULTS**

Lab ID: L1308732-01 D

Date Collected: 05/15/13 08:54

Client ID: SV-5

Date Received: 05/15/13

Sample Location: NYC

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	42.4	--	ND	181	--		211.9
1,1,2,2-Tetrachloroethane	ND	42.4	--	ND	291	--		211.9
o-Xylene	72.5	42.4	--	315	184	--		211.9
4-Ethyltoluene	156	42.4	--	767	208	--		211.9
1,3,5-Trimethylbenzene	ND	42.4	--	ND	208	--		211.9
1,2,4-Trimethylbenzene	ND	42.4	--	ND	208	--		211.9
Benzyl chloride	ND	42.4	--	ND	220	--		211.9
1,3-Dichlorobenzene	ND	42.4	--	ND	255	--		211.9
1,4-Dichlorobenzene	ND	42.4	--	ND	255	--		211.9
1,2-Dichlorobenzene	ND	42.4	--	ND	255	--		211.9
1,2,4-Trichlorobenzene	ND	42.4	--	ND	315	--		211.9
Hexachlorobutadiene	ND	42.4	--	ND	452	--		211.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	114		60-140



Project Name: 522-532 W 29TH

Lab Number: L1308732

Project Number: 41.0162122.00

Report Date: 05/22/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/18/13 12:58

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG609066-4								
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: 522-532 W 29TH

Lab Number: L1308732

Project Number: 41.0162122.00

Report Date: 05/22/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/18/13 12:58

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG609066-4								
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: 522-532 W 29TH

Lab Number: L1308732

Project Number: 41.0162122.00

Report Date: 05/22/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/18/13 12:58

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG609066-4								
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-Trimethylbenzene	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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG609066-3									
Chlorodifluoromethane	96		-		70-130		-		70-130
Propylene	111		-		70-130		-		70-130
Propane	88		-		70-130		-		70-130
Dichlorodifluoromethane	101		-		70-130		-		70-130
Chloromethane	112		-		70-130		-		70-130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	102		-		70-130		-		70-130
Methanol	111		-		70-130		-		70-130
Vinyl chloride	102		-		70-130		-		70-130
1,3-Butadiene	108		-		70-130		-		70-130
Butane	108		-		70-130		-		70-130
Bromomethane	97		-		70-130		-		70-130
Chloroethane	98		-		70-130		-		70-130
Ethyl Alcohol	119		-		70-130		-		70-130
Dichlorofluoromethane	95		-		70-130		-		70-130
Vinyl bromide	94		-		70-130		-		70-130
Acrolein	82		-		70-130		-		70-130
Acetone	119		-		70-130		-		70-130
Acetonitrile	109		-		70-130		-		70-130
Trichlorofluoromethane	103		-		70-130		-		70-130
iso-Propyl Alcohol	107		-		70-130		-		70-130
Acrylonitrile	93		-		70-130		-		70-130



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG6090666-3									
Pentane	107	-	-	-	70-130	-	-	-	70-130
Ethyl ether	108	-	-	-	70-130	-	-	-	70-130
1,1-Dichloroethene	104	-	-	-	70-130	-	-	-	70-130
tert-Butyl Alcohol	90	-	-	-	70-130	-	-	-	70-130
Methylene chloride	113	-	-	-	70-130	-	-	-	70-130
3-Chloropropene	109	-	-	-	70-130	-	-	-	70-130
Carbon disulfide	91	-	-	-	70-130	-	-	-	70-130
1,1,2-Trichloro-1,2,2-Trifluoroethane	102	-	-	-	70-130	-	-	-	70-130
trans-1,2-Dichloroethene	91	-	-	-	70-130	-	-	-	70-130
1,1-Dichloroethane	96	-	-	-	70-130	-	-	-	70-130
Methyl tert butyl ether	88	-	-	-	70-130	-	-	-	70-130
Vinyl acetate	115	-	-	-	70-130	-	-	-	70-130
2-Butanone	101	-	-	-	70-130	-	-	-	70-130
cis-1,2-Dichloroethene	100	-	-	-	70-130	-	-	-	70-130
Ethyl Acetate	84	-	-	-	70-130	-	-	-	70-130
Chloroform	91	-	-	-	70-130	-	-	-	70-130
Tetrahydrofuran	87	-	-	-	70-130	-	-	-	70-130
2,2-Dichloropropane	80	-	-	-	70-130	-	-	-	70-130
1,2-Dichloroethane	95	-	-	-	70-130	-	-	-	70-130
n-Hexane	94	-	-	-	70-130	-	-	-	70-130
Isopropyl Ether	81	-	-	-	70-130	-	-	-	70-130



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG609066-3									
Ethyl-Tert-Butyl-Ether	86		-		70-130		-		
1,1,1-Trichloroethane	102		-		70-130		-		
1,1-Dichloropropene	102		-		70-130		-		
Benzene	101		-		70-130		-		
Carbon tetrachloride	104		-		70-130		-		
Cyclohexane	102		-		70-130		-		
Tertiary-Amyl Methyl Ether	90		-		70-130		-		
Dibromomethane	102		-		70-130		-		
1,2-Dichloropropane	106		-		70-130		-		
Bromodichloromethane	100		-		70-130		-		
1,4-Dioxane	101		-		70-130		-		
Trichloroethene	102		-		70-130		-		
2,2,4-Trimethylpentane	106		-		70-130		-		
Methyl methacrylate	141	Q	-		70-130		-		
Heptane	111		-		70-130		-		
cis-1,3-Dichloropropene	107		-		70-130		-		
4-Methyl-2-pentanone	113		-		70-130		-		
trans-1,3-Dichloropropene	93		-		70-130		-		
1,1,2-Trichloroethane	106		-		70-130		-		
Toluene	88		-		70-130		-		
1,3-Dichloropropane	87		-		70-130		-		



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG609066-3									
2-Hexanone	97	-	-	-	70-130	-	-	-	70-130
Dibromochloromethane	80	-	-	-	70-130	-	-	-	70-130
1,2-Dibromoethane	90	-	-	-	70-130	-	-	-	70-130
Butyl Acetate	81	-	-	-	70-130	-	-	-	70-130
Octane	81	-	-	-	70-130	-	-	-	70-130
Tetrachloroethene	83	-	-	-	70-130	-	-	-	70-130
1,1,1,2-Tetrachloroethane	83	-	-	-	70-130	-	-	-	70-130
Chlorobenzene	89	-	-	-	70-130	-	-	-	70-130
Ethylbenzene	89	-	-	-	70-130	-	-	-	70-130
p/m-Xylene	90	-	-	-	70-130	-	-	-	70-130
Bromoform	72	-	-	-	70-130	-	-	-	70-130
Styrene	86	-	-	-	70-130	-	-	-	70-130
1,1,2,2-Tetrachloroethane	98	-	-	-	70-130	-	-	-	70-130
o-Xylene	92	-	-	-	70-130	-	-	-	70-130
1,2,3-Trichloropropane	89	-	-	-	70-130	-	-	-	70-130
Nonane (C9)	97	-	-	-	70-130	-	-	-	70-130
Isopropylbenzene	87	-	-	-	70-130	-	-	-	70-130
Bromobenzene	87	-	-	-	70-130	-	-	-	70-130
o-Chlorotoluene	83	-	-	-	70-130	-	-	-	70-130
n-Propylbenzene	82	-	-	-	70-130	-	-	-	70-130
p-Chlorotoluene	82	-	-	-	70-130	-	-	-	70-130



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

Parameter	LCS		LCSD		%Recovery Limits		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG609066-3									
4-Ethyltoluene	78		-		70-130		-		
1,3,5-Trimethylbenzene	88		-		70-130		-		
tert-Butylbenzene	86		-		70-130		-		
1,2,4-Trimethylbenzene	92		-		70-130		-		
Decane (C10)	93		-		70-130		-		
Benzyl chloride	70		-		70-130		-		
1,3-Dichlorobenzene	89		-		70-130		-		
1,4-Dichlorobenzene	88		-		70-130		-		
sec-Butylbenzene	86		-		70-130		-		
p-Isopropyltoluene	79		-		70-130		-		
1,2-Dichlorobenzene	88		-		70-130		-		
n-Butylbenzene	92		-		70-130		-		
1,2-Dibromo-3-chloropropane	94		-		70-130		-		
Undecane	100		-		70-130		-		
Dodecane (C12)	110		-		70-130		-		
1,2,4-Trichlorobenzene	94		-		70-130		-		
Naphthalene	90		-		70-130		-		
1,2,3-Trichlorobenzene	89		-		70-130		-		
Hexachlorobutadiene	84		-		70-130		-		



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG609066-5 QC Sample: L1308963-01 Client ID: DUP Sample						
Propylene	1.02	0.985	ppbV	3		25
Dichlorodifluoromethane	0.464	0.490	ppbV	5		25
Chloromethane	0.658	0.724	ppbV	10		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	23.8	25.5	ppbV	7		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	89.5	92.5	ppbV	3		25
Trichlorofluoromethane	0.229	0.246	ppbV	7		25
iso-Propyl Alcohol	4.87	5.28	ppbV	8		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	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	17.4	18.1	ppbV	4		25



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG609066-5 QC Sample: L1308963-01 Client ID: DUP Sample</b>					
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	1.94	1.99	ppbV	3	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	3.24	3.47	ppbV	7	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	ND	0.207	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	0.400	0.427	ppbV	7	25
Trichloroethene	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG609066-5 QC Sample: L1308963-01 Client ID: DUP Sample</b>					
Heptane	0.612	0.538	ppbV	13	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	0.222	0.241	ppbV	8	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.781	0.800	ppbV	2	25
2-Hexanone	0.281	0.262	ppbV	7	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	0.529	0.538	ppbV	2	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	0.566	0.619	ppbV	9	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	0.273	0.277	ppbV	1	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Volatile Organics in Air - Mansfield Lab - Associated sample(s): 01 QC Batch ID: WG609066-5 QC Sample: L1308963-01 Client ID: DUP Sample</b>					
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	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
Naphthalene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25



Serial\_No:052221311:16  
 Lab Number: L1308732  
 Report Date: 05/22/13

Project Name: 522-532 W 29TH  
 Project Number: 41.0162122.00

**Canister and Flow Controller Information**

Sample Number	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
L1308732-01	SV-5	0505	SV200	05/10/13	88353		-	-	-	Pass	211	214	1
L1308732-01	SV-5	776	1.0L Can	05/10/13	88353	L1307812-02	Pass	-28.1	0.2	-	-	-	-



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1307812  
**Report Date:** 05/22/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 05/03/13 17:04  
 Analyst: RY

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 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
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:** L1307812  
**Report Date:** 05/22/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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:** L1307812  
**Report Date:** 05/22/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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:** L1307812  
**Report Date:** 05/22/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-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-Trimethylbenzene	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  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1307812  
**Report Date:** 05/22/13

### Air Canister Certification Results

Lab ID: L1307812-02 Date Collected: 05/01/13 15:17  
 Client ID: CAN 846 SHELF 14 Date Received: 05/02/13  
 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	86		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1307812  
**Report Date:** 05/22/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/03/13 17:04  
 Analyst: RY

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 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:** L1307812  
**Report Date:** 05/22/13

### Air Canister Certification Results

Lab ID: L1307812-02  
 Client ID: CAN 846 SHELF 14  
 Sample Location:

Date Collected: 05/01/13 15:17  
 Date Received: 05/02/13  
 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-Trimethylbenzene	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:** L1307812  
**Report Date:** 05/22/13

### Air Canister Certification Results

Lab ID: L1307812-02 Date Collected: 05/01/13 15:17  
 Client ID: CAN 846 SHELF 14 Date Received: 05/02/13  
 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	85		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	93		60-140

**Project Name:** 522-532 W 29TH**Lab Number:** L1308732**Project Number:** 41.0162122.00**Report Date:** 05/22/13**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 Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1308732-01A	Canister - 1 Liter	N/A	N/A		Y	Absent	TO15-LL(30)

\*Values in parentheses indicate holding time in days

**Project Name:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

## 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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

**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:** 522-532 W 29TH  
**Project Number:** 41.0162122.00

**Lab Number:** L1308732  
**Report Date:** 05/22/13

## 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.

