
REMEDIAL INVESTIGATION REPORT

for

**4650 Broadway
New York, New York
Block 2175, Lot 1**

Prepared For:

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**November 24, 2020
Langan Project No. 170505503**

LANGAN

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
AGV	Air Guideline Values
ASP	Analytical Services Protocol
AST	Aboveground Storage Tank
ASTM	ASTM International
BCP	Brownfield Cleanup Program
bgs	below grade surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CSM	Conceptual Site Model
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
el	Elevation
ELAP	Environmental Laboratory Approval Program
ESA	Environmental Site Assessment
eV	electron volt
FEMA	Federal Emergency Management Agency
FWRIA	Fish and Wildlife Resources Impact Analysis
HASP	Health and Safety Plan
IDW	Investigation-Derived Waste
L/min	liters per minute
mg/kg	milligrams per kilogram
µg/L	micrograms per liter
µg/m ³	micrograms per cubic meter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NAPL	Non-Aqueous Phase Liquid
NYC	New York City
NYCRR	New York Codes, Rules, and Regulations
NYSDOH	New York State Department of Health
NYSDEC	New York State Department of Environmental Conservation
OER	NYC Mayor's Office of Environmental Remediation
PBS	Petroleum Bulk Storage
PCB	Polychlorinated Biphenyls
PCE	Tetrachloroethene
PFAS	Per- and poly-fluoroalkyl substances
PID	Photoionization Detector

Acronym	Definition
PPE	Personal Protective Equipment
ppm	parts per million
ppt	parts per trillion
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RAWP	Remedial Action Work Plan
REC	Recognized Environmental Condition
RI	Remedial Investigation
RIR	Remedial Investigation Report
RL	Reporting Limit
RRU	Restricted-Residential Use
SCO	Soil Cleanup Objective
SGV	Standards and Guidance Values
SMP	Site Management Plan
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCE	Trichloroethene
TCL	Target Compound List
TOGS	Technical and Operational Guidance Series
UN/DOT	United Nations / Department of Transportation
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UU	Unrestricted Use
VOC	Volatile Organic Compound

CERTIFICATION

I, Michael D. Burke, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10).



Michael D. Burke, PG, CHMM

1.0 INTRODUCTION

This Remedial Investigation Report (RIR) was prepared on behalf of AQOZFI Inwood, LLC (the Volunteer) for the property located at 4650 Broadway in the Inwood neighborhood of New York, New York (the site). The Volunteer intends to remediate the site in conjunction with redevelopment.

This RIR presents environmental data and findings from the April 2018 Remedial Investigation (RI), and August 2019 emerging contaminant sampling conducted by Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C. (Langan). The RI was conducted in accordance with Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 375-1, 3.8, 6.8, NYSDEC Division of Environmental Remediation (DER) Program Policy: Technical Guidance for Site Investigation and Remediation (DER-10), and the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, with updates. The objectives and goals of this RIR are to:

- Define the nature and extent of contamination in all media at or emanating from the site
- Generate sufficient data to evaluate the remedial action alternatives and prepare a Remedial Action Work Plan (RAWP) to be implemented concurrently with site redevelopment
- Generate sufficient data to evaluate the actual and potential threats to human health and the environment

The remainder of this report is organized as follows:

- Section 2.0 describes the setting and physical characteristics of the site
- Section 3.0 describes the site background including results of previous investigations and identified areas of concern (AOCs)
- Section 4.0 presents the investigation field procedures
- Section 5.0 describes the field observations and analytical results
- Section 6.0 presents an assessment of the exposure risks of site contaminants to human, fish, and wildlife receptors
- Section 7.0 presents the nature and extent of contamination in site media as determined through the field investigation and analysis of environmental samples
- Section 8.0 summarizes the results of the investigation and presents conclusions based on field observations and analytical results
- Section 9.0 presents the references used in preparation of this report

2.0 SITE PHYSICAL CHARACTERISTICS

2.1 Site Description

The site is located at 4650 Broadway in the Inwood neighborhood of New York, New York, and is identified on the Manhattan Borough Tax Map as Block 2175, Lot 1. The 47,175-square foot lot is located at the southwestern corner of the city block bound by Dongan Place to the north, Arden Street to the east, Sherman Avenue to the south, and Broadway to the west and is improved with a two-story parking garage with a full cellar and partial sub-cellar. The site is vacant and the southern part of the building was most recently operated by Park-it Pilot Parking LLC as a commercial parking garage, and the northern part of the building was most recently used to store antique cars and construction materials. A Site Location Map is included as Figure 1.

According to the New York City Department of City Planning (NYCDCP) Zoning Map 3a, dated August 8, 2018, the site is currently located in an R7-2 residential district for medium density apartments. The height factor regulations for R7 districts encourage lower apartment buildings on smaller zoning lots and on larger lots, taller buildings with less lot coverage. The southern portion of the site is located within the C2-4 commercial district. The C2-4 district is a commercial overlay mapped within residential districts along streets that serve local retail needs. The zoning is consistent with the proposed development.

2.1.1 Description of Surrounding Properties

The site is located in an urban area characterized by multiple-story commercial, residential, and institutional buildings and a municipal park. The following is a summary of surrounding property usage:

Direction	Adjoining Properties			Surrounding Properties
	Block No.	Lot No.	Description	
North	2175	10	Five-story residential/commercial building (4672 Broadway)	Multiple-story residential and commercial buildings and Fort Tryon Park
East	2175	100	Six-story residential/commercial building (20 Sherman Avenue)	Multiple-story commercial and residential buildings and a private school
	2175	113	Six-story residential building (19 Dongan Place)	
South	Sherman Avenue followed by:			
	2174	1	Five-story residential/commercial building (1 Sherman Avenue)	Multiple-story commercial and residential buildings
	2174	8	Six-story residential/commercial building (9 Sherman Avenue)	
West	Broadway followed by:			

Direction	Adjoining Properties			Surrounding Properties
	Block No.	Lot No.	Description	
	2179	625	Fort Tyron Park	Henry Hudson Parkway and Fort Washington Park

Land use within a half mile of the site is primarily commercial and residential, but also includes public parks, day care centers, and schools. A New York City Transit Authority (NYCTA) subway tunnel for the "A" line is located about 300 feet northwest of the site beneath Fort Tryon Park. Sensitive receptors, as defined in NYSDEC DER-10, located within a half mile of the site are listed in the following table:

Number	Name (approximate distance from site)	Address
1	Our Lady Queen of Martyrs School (350 feet northeast)	71 Arden Street New York, New York 10040
2	New York Child Resource Center (370 feet south)	4624 Broadway New York, New York 10040
3	Middle School 322 (400 feet south)	4600 Broadway New York, New York 10040
4	Middle School 322/I.S. 218 Salome Urena (415 feet south)	4600 Broadway New York, New York 10040
5	Public School 152 (450 feet southeast)	93 Nagle Avenue New York, New York 10040
6	The Y Nursery School (790 feet south)	54 Nagle Avenue New York, New York 10040
7	Learn and Play (1,200 feet northwest)	1795 Riverside Drive New York, New York 10034
8	High School for Excellence (1,300 feet northeast)	650 Academy Street New York, New York 10034
9	First Steps Group Day Care (1,300 feet north)	49 Payson Avenue New York, New York 10034
10	Payson Playground (1,400 feet north)	285-287 Dyckman Street New York, New York 10034
11	B & J Wonderland Daycare #4 (1,670 feet south)	4500 Broadway New York, New York 10040
12	Amistad Dual Language School/ Muscota New School (1,725 feet northeast)	4862 Broadway New York, New York 10034
13	Professor Juan Bosch Public School (1,775 feet southeast)	12 Ellwood Street New York, New York 10040
14	My Little Dream Daycare (1,830 feet northeast)	71 Vermilyea Avenue New York, New York 10034
15	The Equity Project Charter School/The College Academy (1,970 feet southeast)	549 Audubon Avenue New York, New York 10040
16	Monsignor Kett Playground (2,045 feet east)	500 West 204 th Street New York, New York 10034

Number	Name (approximate distance from site)	Address
17	Washington Heights Academy (2,150 feet northeast)	202 Sherman Avenue New York, New York 10034
18	Success Academy (2265 feet southwest)	701 Fort Washington Avenue New York, New York 10040
19	Little Daydreamers Early Learning Center (2,300 feet northeast)	103 Seaman Avenue New York, New York 10034
20	Reyes Daycare (2,380 feet northeast)	115 Vermilyea Avenue New York, New York 10034
21	Inwood Academy for Leadership (2,420 feet east)	433 West 204 th Street New York, New York 10034
22	Noah's Ark Day Care Center (2,435 feet northeast)	120 Vermilyea Avenue New York, New York 10034
23	Little Jewel Childcare, Inc. (2,600 feet northeast)	4915 Broadway New York, New York 10034
24	Happy Shiny Faces Daycare (2,630 feet northeast)	136 Seaman Avenue New York, New York 10034

A map showing the surrounding land uses and the locations of sensitive receptors within 1,000 feet of the site is included as Figure 2.

2.1.2 Topography

Based on the USGS Central Park, N.Y.-N.J. 7.5-minute Series Topographic Quadrangle Map, the elevation of the site is about 40 feet above mean sea level (msl), referenced to the North American Vertical Datum of 1983 (NAVD83). The property slopes gently to the east towards the Harlem River, which is located about 2,200 feet east of the site. The site is located at the eastern edge of Fort Tryon Park, which slopes steeply upwards towards the west and reaches an elevation of about 200 feet msl. From that point, the Park then slopes downwards to the west towards the Hudson River.

2.1.3 Surface Water and Drainage

The site footprint is covered by a concrete building slab; therefore, the majority of runoff from the site is expected to drain to the city sewers via drains located throughout the site footprint. If rainwater was to infiltrate the ground, it would percolate downwards toward the water table and join the anticipated regional flow, which is estimated to flow east toward the Harlem River.

According to preliminary Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) No. 3604970081F (revised December 5, 2013), the site falls within Zone X, which is designated for areas of 0.2 percent annual chance of flood; areas of one percent annual chance flood with average depths of less than one foot or with drainage areas less than one square mile; and areas protected by levees from one percent annual chance flood.

2.1.4 Wetlands

Wetlands on or near the site were evaluated by reviewing the National Wetlands Inventory and NYSDEC regulated wetlands map. There are no wetlands on or adjacent to the site. The nearest wetland is associated with the Harlem River and is located about 2,200 feet to the east.

2.2 Geology and Hydrogeology

2.2.1 Regional and Site Geology

According to the U.S. Department of Agriculture (USDA) Soil Conservation Service (SCS), the regional soil composition is predominantly urban land underlain by glacial till. According to the USGS "Bedrock and Engineering Geologic Maps of New York County and Parts of Kings and Queens Counties, New York, and Parts of Bergen and Hudson Counties, New Jersey" dated 1994, the bedrock formation underlying the site is part of the Inwood Marble and includes lenses of the Hartland Formation. The Inwood Marble is comprised of a white calcite-dolomite marble and coarse-grained siliceous dolomite. The western site boundary is congruent with a faulted contact between mica schist of the Manhattan Schist formation and the Inwood Marble. In areas west of the site within Fort Tryon Park, outcrops of the Manhattan Schist are visible.

2.2.2 Regional and Site Hydrogeology

Groundwater flow is usually typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flows toward areas of topographic lows, such as rivers, stream valleys, ponds, and wetlands. A broader, interconnected hydrogeologic network often governs groundwater flow. Groundwater depth and flow direction are also subject to hydrogeologic and anthropogenic variables such as precipitation, evaporation, extent of vegetation cover, and coverage by impervious surfaces. Other factors influencing groundwater include depth-to-bedrock, the presence of fill, and variability in local geology and groundwater sources or sinks.

Groundwater elevations range from el 20.62 to el 21.6 feet¹, which corresponds to depths of about 4.1 to 4.9 feet below cellar grade (about 18.1 to 18.9 feet bgs). Based on groundwater level measurements, groundwater flows east across the site towards the Harlem River.

Groundwater in this area of New York City is not used as a potable water source. Potable water provided to the City of New York is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds.

¹ Groundwater elevations are referenced to the North American Vertical Datum of 1988 (NAVD88).

3.0 SITE BACKGROUND

This section describes historical site use, the proposed redevelopment, and the findings from previous environmental investigations. AOCs were developed based on this information and are detailed at the end of the section.

3.1 Historical Site Use

Historical Sanborn Fire Insurance Maps indicate that the site was an undeveloped vacant lot until at least 1928. The 1928 map indicates that the existing two-story building was constructed across the entire footprint of the site and was occupied by an automotive garage and service facility. By 1968, the northern part of the building was occupied by offices with an elevator in the northwestern corner, and the southern part of the building remained as an automotive garage and service facility. Two gasoline tanks are shown in the southwestern corner of the building in Sanborn maps from 1977 through 1994. According to NYSDEC Petroleum Bulk Storage (PBS) database records, three 550-gallon gasoline underground storage tanks (USTs) were removed from the site in August 2009. Additionally, two No.2 fuel oil USTs (one 5,000-gallon and one 2,500-gallon) and one 5,000-gallon No. 4 fuel oil above ground storage tank (AST) were removed from the site in 1998. The site is listed under NYSDEC PBS Facility ID 2-077666.

3.2 Proposed Redevelopment Plan

The proposed redevelopment project is still in the early planning stages and is subject to change. Current plans call for the development to include demolition of the existing building and construction of a 19-story structure with a cellar level. The new building footprint will span the entire 47,175-square-foot lot, and is anticipated to include residential units and community space. The site will be excavated about five feet below current cellar grade to accommodate the construction of a new cellar level and foundation components. The sub cellar will be backfilled to development depth. The approximate extents of excavation are shown on Figure 3

3.3 Previous Environmental Reports and Documents

The following previous environmental reports and investigations were reviewed as part of this RIR and are summarized below. The reports are included in Appendix A.

Phase I Environmental Site Assessment, dated February 21, 2003, prepared by Soil Mechanics Environmental Services (SMES)

SMES prepared a Phase I Environmental Site Assessment (ESA) on behalf of Acadia Realty Trust in accordance with the previous ASTM E-1527-00 standards. The northern part of the first and second floors of the site was formerly occupied by offices for the New York City (NYC) Human Resources Administration, and the cellar and southern part of the first and second floors

contained a parking garage. SMES did not specify Recognized Environmental Conditions (RECs); however, the following potential environmental concerns were discussed:

- Automotive sales and service activity at the site between 1928 and the 1950's
- Petroleum bulk storage, including one active 5,000-gallon fuel oil AST, a closed and removed 5,000-gallon fuel oil UST), a closed and removed 2,500-gallon fuel oil UST, and three closed-in-place 550-gallon gasoline USTs;
- Waste oil drums, oil-like staining on the floor slab, and oil discharge into a floor drain inside the sub-cellar; and
- A dry-cleaning facility (Henry's Cleaners) located at a southern adjoining property.

SMES recommended the following actions:

- Phase II investigation to identify potential subsurface impacts from historical automotive service activity and petroleum storage
- Trace dye analysis of interior floor drains to confirm discharge points
- Registration and decommissioning of the former petroleum storage tanks in accordance with New York State regulations
- Improvement of housekeeping for the storage of used oil drums, active fuel oil tank, and compressed gas cylinders, and containment of potential discharges from parked cars. SMES concluded that nearby off-site petroleum storage facilities and commercial businesses were not environmental concerns, based on their relative locations and the absence of reported spills.

Asbestos Survey Report, dated January 21, 2005, prepared by CNS Management Corp. (CNS)

CNS performed a site-wide asbestos survey on behalf of Acadia Realty Trust in January 2005. CNS identified asbestos containing material (ACM) on the roof, in the cellar, and in the northern part of the building, which was occupied by NYC Human Resources Administration offices. ACM was identified in floor tile, floor tile mastic, pipe insulation, spray-on fireproofing, roofing materials, duct tar, and roof mounted cooling towers. CNS recommended that the ACM be properly removed prior to renovations, or managed in-place with an Operations and Management (O&M) Plan.

Limited Phase II Subsurface Investigation, dated April 21, 2005, prepared by CNS

In January 2004, CNS was retained by Acadia Realty Trust to complete a subsurface investigation that included five soil borings in the cellar around the perimeter of the sub-cellar. Borings west

of the sub-cellar terminated at 2 and 8 feet below the cellar slab. Borings east of the sub-cellar were terminated within a clay layer at 15 and 18 feet below the cellar slab. Subsurface soil was described as brown fine loamy sand above clay or bedrock. Groundwater was encountered in two borings east of the sub-cellar at a depth of about 6 feet below the cellar slab. Petroleum staining, odors, and photo-ionization detector (PID) measurements between 56 parts per million (ppm) and 356 ppm were observed in one boring located east of the sub-cellar. Staining, odors, or other indications of petroleum impacts were not identified in the other borings.

Five soil samples and one groundwater sample were collected and analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). The analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) Technical Administrative Guidance Memorandum (TAGM) #4046 Allowable Soil Concentrations, Recommended Soil Cleanup Objectives (RSCOs), and Groundwater Standards, which were the applicable standards in 2005. Soil collected from the 4- to 7-foot and 15- to 18-foot depth intervals in one boring east of the sub-cellar contained the petroleum-related VOCs 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m,p-xylene, and n-propylbenzene at concentrations above the TAGM RSCOs. Acetone, a common laboratory artifact, was the only compound detected in the groundwater sample above the New York State Groundwater Standards.

The report concluded that the source of the VOC impacts may be the closed-in-place, 550-gallon gasoline USTs. The report recommended a geophysical survey to locate and evaluate the closed USTs as a contaminant source.

Petroleum Bulk Storage Registration letter, dated September 28, 2005, prepared by CNS

In response to an August 2005 filing violation issued by the New York City Fire Department (FDNY), CNS updated the ownership information for the existing 5,000-gallon fuel oil AST and provided supporting documentation for the removal of two historical fuel oil ASTs. According to the registration application, the AST contained No. 4 fuel oil and was installed on an impervious surface.

Asbestos Operations and Maintenance Manual, dated October 1, 2005, prepared by CNS

Following the recommendations of the January 2005 Asbestos Survey Report, CNS completed an Asbestos O&M Manual to establish guidelines mitigating ACM exposure for occupants of the building.

Asbestos Abatement Specifications, dated July 30, 2007 and November 2, 2007, prepared by CNS

On behalf of Acadia P/A Sherman Avenue LLC, CNS solicited bids to remove the ACM identified in the January 2005 Asbestos Survey Report.

Air Monitoring Compliance Report, dated May 14, 2009, prepared by CNS

On behalf of Acadia P/A Sherman Avenue LLC, CNS monitored the abatement of asbestos identified in the January 2005 Asbestos Survey Report. Delta Environmental conducted the abatement between April 28, 2008 and April 2, 2009. A total of 534 cubic yards of ACM waste was removed and transported off-site for disposal. Following abatement, final air monitoring and visual inspections were performed. Sampling results indicated that all airborne asbestos fiber levels were below the regulatory limit for re-occupation of 0.01 fibers per cubic centimeter.

Lead-Based Paint Survey Report, dated May 25, 2009, prepared by CNS

CNS was retained by Acadia Realty Trust to conduct a site-wide survey for lead-based paint (LBP) in April 2009. CNS identified LBP on the interior perimeter walls of the parking garage (southern part of the site) and on the walls of the vehicle ramps from the cellar to the second floor. CNS concluded that the LBP surfaces were in good condition and could remain in place for management under an O&M Program if unaffected by renovation. CNS recommended lead abatement prior to renovation or demolition of the LBP containing surfaces.

Remedial Action Plan, dated June 12, 2009, prepared by CNS

On behalf of Acadia P/A Sherman Avenue LLC, CNS prepared a Remedial Action Plan (RAP) to address petroleum impacts associated with former USTs at the site. The RAP describes an investigation conducted between March 30 and April 1, 2009, which included excavation of 11 test pits on the southern part of the property, east of the boiler room at cellar grade. The test pits were excavated to expose three closed, 550-gallon gasoline USTs and delineate petroleum contamination in soil and groundwater.

Soil observed in the test pits consisted of sandy loam extending about 10 feet below the cellar slab and underlain by clay to about 12 feet below the slab. Soil in the test pits exhibited petroleum odors and organic vapor readings up to 1,153 ppm. Groundwater was encountered between 5 and 10 feet below the cellar slab. Eighteen soil samples were collected from the test pits and analyzed for VOCs and SVOCs. The following petroleum-related VOCs were detected above the TAGM RSCOs in soil samples collected from five test pits: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, isopropylbenzene, naphthalene, n-propylbenzene, and xylenes. SVOCs were not detected at concentrations above the TAGM RSCOs.

In May 2009, CNS installed four groundwater monitoring wells near the USTs and collected groundwater samples for VOC and SVOC analysis. The analytical results indicated that the following petroleum-related VOCs were detected in each sample at concentrations above the NYSDEC groundwater standards, which were misidentified in the RAP as "TAGM #4046 Groundwater Standards": 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, p-isopropyltoluene, and xylenes.

Based on the investigation findings, NYSDEC was notified and subsequently assigned Spill No. 0902240 to the spill. CNS concluded that the contaminants were delineated and proposed (i) the removal of the three 550-gallon gasoline USTs, (ii) excavation and removal of surrounding petroleum-impacted soil, and (iii) injections of chemical oxidizers to remediate groundwater.

New York City Department of Environmental Protection (NYCDEP) Groundwater Discharge letter, dated July 8, 2009, prepared by CNS

CNS installed two observation wells (OW-A and OW-B) in the northern part of the cellar in May 2009. CNS collected groundwater samples from each well for analysis of parameters required NYCDEP sewer discharge permitting. VOCs, polychlorinated biphenyls (PCBs), and petroleum-related SVOCs were not detected in the groundwater samples.

Remediation Report, dated October 22, 2009, prepared by CNS

On behalf of Acadia P/A Sherman Avenue LLC, CNS implemented the spill remediation as proposed in the June 2009 RAP. From August 5 to 16, 2009, the three closed 550-gallon gasoline USTs were removed along with 1,610 gallons of liquid product waste. The surrounding impacted soil was excavated to about 6 feet below the floor slab and transported off site for disposal. Analytical results from five confirmation sidewall and bottom soil samples indicated that petroleum-related VOCs and SVOCs were below the state regulatory guidelines. Following the removal of the USTs and surrounding petroleum impacted soil, CNS injected 300 pounds of RegenOx[®], a chemical oxidant, into three of the existing monitoring wells. Post injection groundwater samples contained petroleum-related VOCs and SVOCs at concentrations above state regulatory standards.

CNS requested that no further action be required for soil and recommended continued quarterly groundwater monitoring through 2009.

Groundwater Monitoring Reports, dated December 2009 through January 2016, prepared by CNS

CNS prepared 18 quarterly groundwater monitoring reports from December 2009 through January 2016. The reports summarize the collection of groundwater samples from four on-site

wells for analysis of petroleum-related VOCs and SVOCs. A fifth well was installed in the cellar down-gradient of the remediation area, and was sampled during quarterly events between October 2014 and January 2016. As of the most recent January 2016 report, VOCs including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethylbenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, o-xylene, p-isopropyltoluene, p/m-xylene, sec-butylbenzene, toluene, and total xylenes and one SVOC, naphthalene, were detected above applicable state standards.

Phase I Environmental Site Assessment, dated May 2014, prepared by Langan

Langan prepared a Phase I ESA in accordance with the ASTM E-1527-13 standards. The report was prepared for Washington Square Partners, Inc., a consultant for Acadia P/A Sherman Avenue LLC. The following RECs were identified:

- The site was formerly identified as a garage and service station and contained a 2,500-gallon fuel oil UST, a 5,000-gallon fuel oil UST, a 5,000-gallon AST, and three 550-gallon gasoline USTs. During removal of the 550-gallon USTs, impacted soil and groundwater were observed, and NYSDEC Spill No 0902240 was assigned. Following injection of RegenOx®, and continued groundwater monitoring, elevated concentrations of petroleum-related VOCs and SVOCs were detected above regulatory standards, and the spill remained open.
- A gasoline filling station, and manufacturing facility were located proximate to the Site, at 4706 Broadway, and 1 Sherman Avenue, respectively. NYSDEC Spill No. 0809967 was assigned to 1 Sherman Avenue, and administratively closed in 2013. However, records indicate that impacted soil and groundwater remain at the site.

Aboveground Storage Tank Removal Report, dated February 17, 2016, prepared by CNS

CNS performed the removal of a 5,000-gallon fuel oil AST, on behalf of Acadia P/A Sherman Avenue LLC. The report indicates that the former AST rested on a competent concrete slab in the cellar, and no staining was observed. The tank was emptied prior to the removal. Field activities included the removal of the cinderblock vault containment, steel tank and all piping components. An affidavit was filed with the New York City Fire Department (FDNY) documenting the tank removal.

Phase I Environmental Site Assessment, dated March 2018, prepared by Langan

Langan prepared a Phase I ESA for the site in accordance with the ASTM E-1527-13 standards. The report was prepared for FBE Limited LLC. The following RECs were identified:

- Petroleum-impacted soil and groundwater were documented near three historical gasoline USTs and a former petroleum tank room in the southern part of the cellar in 2004 and 2009. NYSDEC Spill No. 0902240 was reported, and the USTs and petroleum-impacted soil were subsequently removed. Endpoint sampling results indicate that soil impacts were remediated; however, quarterly monitoring performed through January 2016 indicates that petroleum contamination persists in groundwater and may impact soil vapor.
- Vehicle repair was conducted at the site between about 1928 and at least 1950. Undocumented releases of petroleum, solvents, and/or other hazardous substances may have adversely impacted soil, groundwater, and/or soil vapor.
- A former petroleum spill and historical dry cleaning facility were located on the southern adjoining property at 107 Ellwood Street/7 Sherman Avenue. NYSDEC Spill No. 0809967 was associated with soil and groundwater contamination originating from a petroleum tank release in 2008. Although the spill was closed in 2013, endpoint groundwater sampling was not documented. A commercial dry cleaning facility was also located at the site between 2001 and 2008. Residual petroleum impacts from the former spill and undocumented releases of chlorinated solvents from the drycleaner may have adversely impacted soil vapor and groundwater at the site.

Phase II Environmental Site Investigation Report, dated March 2018, prepared by Langan

The Phase II ESI was conducted to further investigate the RECs identified in the March 2018 Phase I ESA. The Phase II ESI included a geophysical survey, advancement of eight soil borings, installation of four groundwater monitoring wells and four soil vapor probes, and collection of soil, groundwater, and soil vapor samples for laboratory analysis. The following observations were made during the March 2018 Phase II ESI:

- The geophysical survey did not identify subsurface anomalies indicative of a UST.
- Fill material, generally consisting of brown, medium-grained sand with varying amounts of fine sand, silt, and gravel was identified from surface grade to depths of up to 4 feet below the cellar slab across the site footprint. Native soil, typically consisting of brown, fine-grained sand with varying amounts of silt and clay, was identified across the site footprint beneath the fill layer to depths ranging from 4 to 12 feet below cellar grade. Groundwater was encountered at depths ranging from about 4 to 7 feet below cellar grade.

- Petroleum impacts were identified at the groundwater interface in soil and groundwater samples in sample location SB02. Concentrations of several VOCs were detected above the Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) and/or Restricted Use Restricted-Residential (RRU) Soil Cleanup Objective (SCO) and NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Drinking Water (class GA) (collectively referred to as the Standards and Guidance Values [SGVs]). These impacts are related to historical releases from the three 550-gallon gasoline USTs formerly located in this area, documented as NYSDEC Spill No. 0902240. Monitoring of this open spill is ongoing.
- Lead was detected at a concentration above the UU SCO in soil sample SB05_1-2. This concentration is typical of historic fill material in New York City. Dissolved metals, including magnesium, manganese, mercury, and sodium, were detected at concentrations exceeding SGVs. Magnesium, manganese, and sodium are naturally occurring and are not indicative of a release. The groundwater sample containing dissolved mercury was collected within the fill material, which typically contains metals at concentrations exceeding SGVs.

The March 2018 Phase II ESI analytical laboratory data for soil, groundwater, and soil vapor is summarized in Tables 1, 2, and 3, respectively. Soil boring, monitoring well, and soil vapor probe locations are shown on Figures 4, 5, and 6, respectively.

3.4 Summary of Potential Areas of Concern

Based on the history of the site and the findings of previous environmental investigations, the AOCs further investigated during the RI include the following:

AOC 1: On-Site Open Petroleum Spill

Petroleum-impacts to soil and groundwater were documented during subsurface investigations performed in 2004 and 2009. In May 2009, four groundwater monitoring wells were installed near three 550-gallon gasoline USTs and groundwater samples were collected for VOC and SVOC analysis. Based on the investigation findings, a spill was reported and NYSDEC Spill No. 0902240 was assigned. The USTs and petroleum-impacted soil have been subsequently removed from the site; however, petroleum contamination persists in groundwater and in soil, as indicated in the March 2018 Phase II ESI performed by Langan.

AOC 2: Historic Fill

Material from an unknown source was used to fill in the site during historical development. The fill extends from below the surface cover to a depth of about 4 feet below cellar grade (18 feet

bgs) and is predominantly comprised of brown, fine- to medium-grained sand with varying amounts of silt, gravel, and concrete. Lead and mercury, two metals typically associated with historic fill in New York City, were detected at concentrations above applicable regulatory standards in samples collected within the fill layer during the March 2018 Phase II ESI performed by Langan.

AOC 3: Historical Use of the Site

An automotive service facility was located at the site from approximately 1928 to 1968. Three 550-gallon gasoline USTs associated with the automotive service facility were removed in August 2009. Contaminants of concern (COCs) associated with AOC 3 include metals, chlorinated solvents, and petroleum. Historical site use as an automotive service facility may have adversely impacted soil, soil vapor, and/or groundwater.

AOC 4: Petroleum Spill at Adjoining Property

A former petroleum spill was located on the southern adjoining and up gradient property at 107 Ellwood Street/7 Sherman Avenue. NYSDEC Spill No. 0809967 was associated with soil and groundwater contamination originating from a petroleum tank release in 2008. Although the spill was closed in 2013, endpoint groundwater sampling was not documented. Residual petroleum impacts from the former spill may have adversely impacted soil, soil vapor, and/or groundwater at the site.

AOC 5: Historical Use of Adjoining Property

A dry cleaning facility was located on the southern-adjoining and up gradient property at 107 Ellwood Street/7 Sherman Avenue between 2001 and 2008. COCs associated with AOC 5 include PCE and its daughter products (i.e., TCE, cis-1,2-dichloroethene, and vinyl chloride). PCE has the potential to infiltrate groundwater and can readily migrate to surrounding properties. Undocumented releases of chlorinated solvents from the drycleaner may have adversely impacted soil, soil vapor, and/or groundwater at the site.

An AOC location map is included as Figure 7.

4.0 REMEDIAL INVESTIGATION

The RI was completed between April 9 and September 13, 2018, and emerging contaminant sampling was completed in August 2019, to investigate AOCs and to determine, to the extent practical, the nature and extent of contamination in soil, groundwater, and soil vapor. The RI included the advancement of soil borings, installation of groundwater monitoring wells and soil vapor probes, and collection of soil, groundwater, and soil vapor samples. Borings RSB01 through RSB22, RSB25 through RSB31, and RSB03A, RSB05A, RSB06A, RSB07A, RSB08A, RSB09A, RSB14A and RSB15A, were advanced from the cellar level, which is approximately 14 feet bgs. Borings RSB32 and RSB33 were advanced from sidewalk grade. A sample summary is included as Table 4.

The RI and emerging contaminant sampling consisted of the following:

- Installation of 39 soil borings and collection of 79 grab soil samples (including four duplicate samples)
- Installation of 8 soil borings and collection of 17 grab soil samples for emerging contaminants (including one duplicate sample)
- Installation of fifteen groundwater monitoring wells and collection of seventeen groundwater samples (including two duplicate samples)
- Surveying and synoptic gauging of nine groundwater monitoring wells (RMW01 through RMW09) to determine local groundwater flow direction
- Installation of eight soil vapor points and collection of eight soil vapor samples

Langan completed the RI and emerging contaminant sampling in accordance with 6 NYCRR Part 375-3.8, NYSDEC DER-10 (May 2010), the NYSDEC Draft BCP Guide (May 2004), and the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006 and subsequent updates).

4.1 Soil Investigation

4.1.1 Investigation Methodology

A Langan field engineer documented the advancement of 39 RI soil borings (RSB01 through RSB22, RSB25 through RSB33), and 8 emerging contaminant sampling soil borings (RSB03A, RSB05A, RSB06A, RSB07A, RSB08A, RSB09A, RSB14A and RSB15A), by Eastern Environmental Solutions, Inc. (Eastern) of Manorville, New York. Boring locations were selected to investigate the potential AOCs. The borings were advanced using a direct-push Geoprobe®

6610DT track-mounted drill rig. Borings located in the cellar were advanced to depths ranging from about 9 to 16 feet below cellar grade (30 feet bgs). Sidewalk borings RSB32 and RSB33 were advanced to 20 and 28 feet bgs, respectively.

Soil was recovered continuously from the surface to the completion depth of each boring. Samples were collected into 3- or 4-foot long acetate liners using a 2-inch diameter Macro-Core® or DualTube® sampler. The soil was screened for visual, olfactory, and instrumental evidence of a chemical or petroleum release, and was visually classified for soil type, grain size, texture, and moisture content. Instrument screening for the presence of organic vapors was performed using a PID equipped with a 10.6 electron volt (eV) lamp. Following sample collection, borings were backfilled with soil cuttings that did not display evidence of environmental impacts, and patched with concrete; or borings were converted to groundwater monitoring wells. Boring locations are shown on Figure 7 and boring logs are included in Appendix B.

Concentrations of SVOCs above the Part 375 UU SCOs were detected at borings RSB07 and RSB13 between 7 to 8 feet below cellar grade. To further define the extent of SVOC impacts in these locations, a supplemental investigation was completed. During the supplemental investigation, a boring was advanced adjacent to the original RSB07 and RSB13 boring locations (RSB07_R and RSB13_R). Three soil borings were advanced in three cardinal directions around each original boring location, and a sample was collected from 7 to 8 feet below cellar grade to delineate the extent of SVOC impacts.

4.1.2 Sampling Methodology

A total of 95 soil samples, including 5 duplicate samples, were collected for laboratory analysis. Samples were generally collected for laboratory analysis from borings RSB01 through RSB15 at the 0- to 2-foot depth interval (i.e., shallow fill), the groundwater interface, or, when encountered, the greatest degree of petroleum-impacts. Thirty-nine soil samples were analyzed for TCL VOCs, SVOCs, polychlorinated biphenyls (PCBs), pesticides, herbicides, cyanide and metals including hexavalent and trivalent chromium. Sixteen soil samples were analyzed for per- and poly-fluoroalkyl substances (PFAS) and 1,4-Dioxane. One of the sixteen soil samples was analyzed for PFAS via Total Oxidizable Precursor (TOP) Assay.

Samples from borings RSB16 through RSB22 and RSB25 through RSB33 were collected to delineate the extents of the petroleum plume in the south-central part of the site. Samples from these borings were collected from the interval of greatest observed petroleum impacts and the interval below observed impacts, or if impacts were not encountered, from the groundwater interface only. Twenty-five soil samples were analyzed for TCL VOCs and SVOCs.

RSB23 and RSB24 were intended to be advanced in the sub-cellar; however, because the southern half of the sub-cellar was flooded, and the concrete slab in the northern half of the sub-

cellar is at least 51-inches thick, the condition of the sub-cellar precluded the advancement of the proposed borings.

Samples from RSB07, RSB13 and their respective step-out borings were collected to delineate SVOC impacts from 7 to 8 feet bgs. Thirteen soil samples were submitted for analysis of TCL SVOCs.

Samples from RSB03A, RSB05A, RSB06A, RSB07A, RSB08A, RSB09A, RSB14A and RSB15A were collected during the emerging contaminant sampling for analysis of PFAS and 1,4-dioxane at the site. One sample from RSB09A was collected and analyzed for PFAS via TOP Assay.

In addition, soil testing was performed during the RI to support the identification and evaluation of remediation alternatives. The results were used to inform the remedial alternatives analysis section of the Remedial Action Work Plan (RAWP). Grab samples from RSB16 and RSB20 were collected and analyzed for additional soil parameters including grain size, total organic carbon (TOC), and/or total petroleum hydrocarbons (TPH).

Samples submitted for VOC analysis were collected directly from the acetate liner into laboratory-supplied EnCore[®] or Terracore[®] soil samplers. The remaining sample volume was homogenized and placed in laboratory-supplied containers for additional analyses. Samples submitted for TOC and TPH were collected directly from the acetate liner into laboratory-supplied containers. The sample containers were labeled, placed in a laboratory-supplied cooler, and packed on ice to maintain a temperature of about 4°C. The samples were picked up and delivered via courier service to Alpha Analytical Inc. (Alpha) under standard chain-of-custody protocol. Alpha is a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory located in Westborough, Massachusetts.

4.2 Groundwater Investigation

4.2.1 Monitoring Well Installation and Development Methodology

A Langan field engineer documented conversion of fifteen soil borings into permanent groundwater monitoring wells by Eastern during the RI. One groundwater sample was collected from each monitoring well to characterize groundwater conditions and to investigate potential groundwater impacts associated with the AOCs. Two duplicate groundwater samples were also collected from monitoring wells RMW02 and RMW18.

Soil borings RSB01 through RSB09, RSB16, RSB18, RSB28, RSB30, RSB32, and RSB33 were converted into groundwater monitoring wells RMW01 through RMW09, RMW16, RMW18, RMW28, RMW30, MW32, and MW33 by inserting 10 feet of 1- or 2-inch diameter, schedule 40, 0.01-inch slotted polyvinyl chloride (PVC) screen at the base of the well, and attached PVC riser to grade. The 10-foot screened PVC length was installed from about 5 to 15 feet below cellar

grade (about 19 to 29 feet bgs) in monitoring wells RMW01 to RMW03, RMW05 to RMW07, and RMW09; from about 2 to 12 feet below cellar grade (about 16 to 26 feet bgs) in monitoring well RMW04; from about 6 to 16 feet below cellar grade (20 to 30 feet bgs) in monitoring well RMW08; from 3 to 13 feet below cellar grade (17 to 27 feet bgs) in monitoring wells RMW16 and RMW18; from about 4 to 14 feet below cellar grade (18 to 28 feet bgs) in monitoring wells RMW28 and RMW30; and from about 8 to 18 feet bgs in sidewalk monitoring wells MW32 and MW33. The annulus of each groundwater monitoring well was filled with No. 2 sand to a depth of about 2 feet above the top of the screen followed by a bentonite seal to grade surface. Following installation, the groundwater monitoring wells were developed using a peristaltic pump until the water ran clear. Purged groundwater was containerized in labeled 55-gallon drums awaiting disposal at a permitted facility.

The top of casing elevations of monitoring wells RMW01 through RMW09, were surveyed by Langan on April 16, 2018. Synoptic groundwater levels were measured using a Solinst 122 oil/water interface probe on May 9, 2018.

Monitoring and observation well construction details and groundwater elevations are included in Table 5, well locations are shown on Figure 5, and well construction logs are included in Appendix C.

4.2.2 Groundwater Sampling

Groundwater samples were collected one week following well development on April 18 and 19, August 7, and September 13, 2018. Samples were collected in accordance with the United State Environmental Protection Agency's (USEPA) low-flow groundwater sampling procedure ("Low Stress [low-flow] Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells", dated July 30, 1996 and revised January 19, 2010) to allow for collection of representative samples. Prior to sample collection, groundwater was purged from each well while monitoring physical and chemical groundwater parameters (i.e., pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential). Prior to sample collection, at least two well volumes were purged from each monitoring well.

Fifteen groundwater samples and two duplicate samples were collected into labeled, laboratory-supplied containers, placed in a laboratory-supplied cooler, and packed on ice to maintain a temperature of about 4°C. The samples were picked up and delivered via courier service to Alpha under standard chain-of-custody protocol. Nine groundwater samples were analyzed for Target Compound List (TCL) VOCs plus 1,4-dioxane, TCL SVOCs, PCBs, pesticides/herbicides, Target Analyte List (TAL) metals (total and dissolved), trivalent chromium, hexavalent chromium, total cyanide, and the 21-compound list of PFAS. Six groundwater samples were analyzed for TCL VOCs and SVOCs only.

In addition, groundwater testing was performed during the RI to support the identification and evaluation of remedial alternatives. The results of the additional analyses were used to inform the remedial alternatives analysis section of the RAWP. The groundwater sample from RMW16 was also analyzed for TOC.

Groundwater sampling logs are included in Appendix D.

4.3 Soil Vapor Investigation

4.3.1 Soil Vapor Probe Installation

A Langan field engineer documented installation of eight soil vapor probes (RSV01 through RSV08) by Eastern. The soil vapor probes were installed about 2 feet above the water table (2.5 to 3 feet below cellar grade). Eastern used a direct push Geoprobe® 6610DT track-mounted drill rig or an electric hand drill to install the soil vapor probes.

Soil vapor probes were installed in accordance with the 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York and were comprised of polyethylene implants (1/2-inch diameter and 1-7/8-inch long) threaded into 3/16-inch-diameter polyethylene tubing. The annulus of each probe was filled with No. 2 sand to a depth of about 4 inches above top of screen followed by a hydrated bentonite seal to surface grade.

Soil vapor probe locations are shown on Figure 6, and soil vapor probe construction/sampling logs are included in Appendix E.

4.3.2 Soil Vapor Sampling and Analysis

As a quality assurance/quality control (QA/QC) measure, an inert tracer gas (helium) was introduced into an above-grade sampling chamber to verify that the soil vapor probes were properly sealed above the target sampling depth, thereby preventing subsurface infiltration of ambient air. Direct readings of less than 10 percent helium in the sampling tube were considered sufficient to verify a tight seal at each sample point.

Each soil vapor probe was purged using a MultiRAE meter at a rate of 0.2 liters per minute (L/min) to evacuate a minimum of three sampling tube volumes prior to sample collection. The purged soil vapor was also monitored for VOCs. After purging was complete, soil vapor samples were collected into laboratory-supplied, batch-certified, 2.7-Liter Summa® canisters that were calibrated for a sampling rate of about 0.05 L/min over about 120 minutes of sampling. For QA/QC purposes, one indoor air sample was collected in the stairwell in the southeast corner of the site. The canisters were labeled and retrieved by a courier for delivery to Alpha under standard chain-of-custody protocol. Soil vapor samples were analyzed for VOCs by USEPA Method TO-15.

Soil vapor construction/sampling logs are included in Appendix E.

4.4 Quality Control Sampling

During the RI and supplemental emerging contaminant sampling, field blanks, trip blanks, field duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and an indoor air sample were collected and submitted for laboratory analysis. QA/QC samples include the following quality control samples:

Soil QA/QC samples

- Six field blanks
- Eleven trip blank samples
- Five field duplicate samples
- Five MS/MSD samples

Groundwater QA/QC samples

- Two field blank sample
- Four trip blank samples
- Two field duplicate sample
- Two MS/MSD duplicate sample

Soil Vapor QA/QC Samples

- One indoor air sample

The field duplicates were collected to assess the precision of the analytical methods relative to the sample matrix. The duplicates were collected from the same material as the primary sample by splitting the volume of homogenized sample collected in the field into two sample containers.

The trip blank samples were collected to assess the potential for contamination of the sample containers and samples during the trip from the laboratory, to the field, and back to the laboratory for analysis. Trip blanks contain approximately 40 milliliters of acidic water (doped with hydrochloric acid) that is sealed by the laboratory when the empty sample containers are shipped to the field, and unsealed and analyzed by the laboratory when the sample shipment is received from the field. The trip blank samples were analyzed for VOCs.

Field blank samples were collected to determine the effectiveness of the decontamination procedures for the groundwater sampling equipment train and the cleanliness of unused neoprene gloves and acetate liners used to collect soil samples. Field blank samples consisted

of deionized, distilled water provided by the laboratory that has passed through the sampling apparatus. Field blank samples were analyzed for same lists as the corresponding sampling event and sample matrix.

MS/MSD samples were collected to assess the effect of the sample matrix on the recovery of target compounds or target analytes. MS/MSD samples were collected from the same material as the primary sample by splitting the volume of the homogenized sample collected in the field into three sample containers.

An indoor air sample was collected to assess indoor ambient air conditions and determine whether conditions existed at the site during soil vapor sampling that could have potentially interfered with sampling results. The indoor air sample was analyzed for the same parameter list as the soil vapor samples.

4.5 Data Validation

Data from the RI, emerging contaminant sampling, and March 2018 Phase II were validated by a Langan data validator in accordance with USEPA and NYSDEC validation protocols. Copies of the data usability summary reports (DUSRs) and the data validator's credentials are included in Appendix F.

4.5.1 Data Usability Summary Report Preparation

A DUSR was prepared for each sampling matrix. The DUSR presents the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain-of-custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method.

For each of the organic analytes, the following was assessed:

- Holding times;
- Instrument tuning;
- Instrument calibrations;
- Blank results;
- System monitoring compounds or surrogate recovery compounds (as applicable);
- Internal standard recovery results;
- MS/MSD results;
- Target compound identification;
- Chromatogram quality;

- Pesticide cleanup (if applicable);
- Compound quantization and reported detection limits;
- System performance; and
- Results verification.

For each of the inorganic analytes, the following was assessed:

- Holding times;
- Calibrations;
- Blank results;
- Interference check sample;
- Laboratory check samples;
- Duplicates;
- Matrix Spike;
- Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) QC;
- ICP serial dilutions; and
- Results verification and reported detection limits.

Based on the results of data validation, the validated analytical results reported by the laboratory were assigned one of the following usability flags:

- "U" – The analyte was analyzed for but was not detected at a level greater than or equal to the reporting limit (RL) or the sample concentration for results was impacted by blank contamination.
- "UJ" – The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
- "J" – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- "R" – The sample results are not useable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

After data validation was complete, validated data was used to prepare the tables and figures included in this report.

4.6 Field Equipment Decontamination

Handheld sampling equipment, including the interface probe, water quality meter, and sampling pump, was decontaminated by hand using an Alconox-based solution and triple rinsed with distilled water. Liquids were temporarily contained in 5-gallon buckets, and between rinses, equipment was placed such that contact with the ground was avoided. Decontamination wastewater was drummed for future disposal at a permitted facility.

4.7 Investigation-Derived Waste Management

Investigation-derived wastes (IDW) generated during the RI were containerized, as necessary. Aqueous waste from monitoring well development and purging and decontamination water were placed into United Nations/Department of Transportation (UN/DOT)-approved 55-gallon steel drums with sealed tops. The drums will be transported off-site by a licensed waste hauler and disposed of at a permitted facility. Petroleum-impacted soil was containerized for laboratory analysis.

5.0 FIELD OBSERVATIONS AND ANALYTICAL RESULTS

This section summarizes the field observations and laboratory analytical results from the RI. Soil analytical results are compared to the Part 375 UU and RRU SCOs. Groundwater analytical results are compared to the SGVs. The nature and extent of contamination are discussed in Section 7.0.

A summary of the RI soil, groundwater, and soil vapor samples is included in Table 4. Copies of the laboratory analytical reports are included in Appendix G. Summaries of the analytical results for the soil, groundwater, and soil vapor samples are provided in the following tables:

- Table 6: Soil Sample Analytical Results Summary – VOCs
- Table 7: Soil Sample Analytical Results Summary – SVOCs
- Table 8: Soil Sample Analytical Results Summary – PCBs, Herbicides, Pesticides, Metals, General Chemistry
- Table 9: Soil Sample Analytical Results Summary – PFAS and 1,4-Dioxane
- Table 10: Groundwater Sample Analytical Results Summary
- Table 11: Groundwater Sample Analytical Results Summary – PFAs (21-compound list)
- Table 12: Soil Vapor Sample Analytical Results Summary

The following sections describe the RI field observations and analytical data.

5.1 Geology and Hydrogeology

Geologic and hydrogeologic observations are described below. A groundwater contour map is provided as Figure 8. A cross-sectional diagram showing inferred soil profiles is included as Figures 9A and 9B and soil boring logs are included in Appendix B.

5.1.1 Historic Fill Material

Historic fill material was encountered beneath the surface cover and extended to a maximum depth of about 7.5 feet below cellar grade (about 21.5 feet bgs). The historic fill predominantly consisted of brown, fine- to medium-grained sand with varying amounts of silt, gravel, and concrete.

5.1.2 Native Soil

Historic fill was underlain by glacial till that predominantly consists of fine- to medium-grained sand with varying amounts of gravel and silt. The glacial till extends to the termination depth at each RI boring.

5.1.3 Bedrock

Bedrock was not encountered during the April 2018 RI; however, bedrock was encountered during a Geotechnical Investigation performed by Langan in April and May 2018. Bedrock consists of gneiss, mica schist, and marble. The top of bedrock varies from about 30 to 88 feet below cellar grade. The bedrock surface is irregular and generally slopes down to the west and to the north. Boring data indicates bedrock is shallowest within the southeastern part of the site.

5.1.4 Hydrogeology

Synoptic groundwater measurements were collected on May 9, 2018 from nine groundwater monitoring wells (RMW01 through RMW09). Groundwater elevations range from el 20.62 to el 21.6 feet, which corresponds to depths of about 4.1 to 4.9 feet below cellar grade (about 18.1 to 18.9 feet bgs). Groundwater elevations range from el 20.62 to el 21.6 feet², which corresponds to depths of about 4.1 to 4.9 feet below cellar grade (about 18.1 to 18.9 feet bgs). Based on groundwater level measurements, groundwater flows east across the site towards the Harlem River.

5.2 Soil Findings

5.2.1 Field Screening Observations

Observations of petroleum-like odors and elevated instrument (i.e., PID) readings are listed below.

Soil Boring	Depth Interval (feet bgs)	Maximum PID (ppm)	Other Observations
RSB01	6 to 11.5	15,000	Odors Present
RSB02	0 to 8	368.5	Odors Present
RSB03	6 to 12	15,000	Odors Present
RSB04	7 to 11	15,000	Odors Present
RSB10	8 to 12	15,000	Odors Present
RSB11	6 to 12	15,000	Odors Present
RSB12	6 to 10	176	Odors Present

² Groundwater elevations are referenced to the North American Vertical Datum of 1988 (NAVD88).

Soil Boring	Depth Interval (feet bgs)	Maximum PID (ppm)	Other Observations
RSB16	5 to 8	1,100	Odors Present
RSB17	6 to 8	31.5	Odors Present
RSB21	8 to 9	48.9	Odors Present
RSB22	8 to 9	5.1	Odors and Staining Present
RSB26	6 to 9	45.2	Odors and Staining Present
RSB27	8 to 10	15.6	Odors and Staining Present
RSB29	8 to 9	17.9	Odors and Staining Present
RSB03A	5 to 6	67.4	Odors Present

The borings listed above were located in the southern-central part of the site, which formerly contained three, 550-gallon gasoline USTs and a petroleum tank room. The depth of petroleum impacts were delineated vertically at RSB01, RSB02, RSB04, RB12, RSB16, RSB17, RSB21, RSB22, RSB26, RSB27, RSB29, and RSB03A. Petroleum impacts were observed at boring termination depth at RSB03, RSB10, and RSB11; however, based on nearby borings RSB01, RSB04, and RSB16, the petroleum impacts are expected to extend to about 12 feet below cellar grade. No other visual, olfactory, and PID readings indicative of chemical or petroleum impacts were observed during the RI and emerging contaminant sampling.

5.2.2 Analytical Results

Thirty-nine soil samples, including two duplicate samples, were collected and analyzed for TCL VOCs, SVOCs, PCBs, pesticides, herbicides, cyanide, and metals including hexavalent and trivalent chromium; twenty-five samples, including one duplicate, were analyzed for TCL VOCs and SVOCs; twelve samples, including one duplicate, were analyzed for TCL SVOCs; two samples were analyzed for remedial design parameters grain size, TOC, and TPH; 16 soil samples were analyzed for PFAS and 1,4-Dioxane; and one of the sixteen soil samples was analyzed for PFAS via TOP Assay. A summary of laboratory detections for soil samples collected during the

RI, with comparisons to the Part 375 UU and RRU SCOs, is included in Tables 6, 7, and 8 and shown on Figure 4. The analytical results are summarized below.

VOCs

Petroleum-related VOCs were detected above the UU and/or RRU SCOs in soil samples collected at or below the groundwater interface (between 6 and 10 feet below cellar grade) in soil borings RSB01, RSB10, and RSB11. These soil borings were located in the southern-central part of the site, within the area formerly containing the three, 550-gallon gasoline USTs and a petroleum tank room. The list below provides a summary of each VOC that exceeds the UU and/or RRU SCOs. Analytes detected at concentrations above the RRU SCOs are shown in bold. SCOs are shown in parentheses:

- **1,2,4-Trimethylbenzene:** 6.4 milligram per kilogram (mg/kg) in RSB01_6-7 to **530 mg/kg** in RSB11_8-9 (UU SCO of 3.6 mg/kg; RRU SCO of 52 mg/kg)
- **1,3,5-Trimethylbenzene:** 10 mg/kg in RSB10_9-10 to **160 mg/kg** in RSB11_8-9 (UU SCO of 8.4 mg/kg; RRU SCO of 52 mg/kg)
- **Ethylbenzene:** 2.4 mg/kg in RSB16_6-8 (UU SCO of 1 mg/kg; RRU SCO of 41 mg/kg)
- **Methylene chloride:** 3.4 mg/kg in RSB16_6-8 (UU SCO of 0.05 mg/kg; RRU SCO of 100 mg/kg)
- **Isopropylbenzene:** 29 mg/kg in RSB16_6-8 (UU SCO of 3.9 mg/kg; RRU SCO of 100 mg/kg)
- **n-Butylbenzene:** 30 mg/kg in RSB11_8-9 (UU SCO of 12 mg/kg; RRU SCO of 100 mg/kg)
- **n-Propylbenzene:** 67 mg/kg in RSB11_8-9 (UU SCO of 3.9 mg/kg; RRU SCO of 100 mg/kg)
- **sec-Butylbenzene:** 14 mg/kg in RSB11_8-9 (UU SCO of 11 mg/kg; RRU SCO of 100 mg/kg)
- **Total Xylenes:** 0.76 mg/kg in RSB26_7-8 to 31 mg/kg in RSB16_6-8 (UU SCO of 0.26 mg/kg; RRU SCO of 100 mg/kg)

Acetone was detected in two samples, RSB08_14-15 and RSB15_11-12, above the UU SCO of 0.05 mg/kg. Acetone was the only VOC detected above UU and RRU SCOs in the two samples. Although not detected in the laboratory batch blank, acetone is a common laboratory contaminant and its presence in soil is not likely indicative of a release.

SVOCs

Seven polycyclic aromatic hydrocarbons (PAHs) were detected at concentrations above the Part 375 UU and/or RRU SCOs. The PAHs were detected in the 7 to 8 foot interval below cellar grade in samples collected from soil borings RSB07 and RSB13, located in the northeast corner of the site. PAHs were also detected above the UU and RU SCOs in a shallow soil sample collected from soil boring RSB13. The list below provides a summary of each PAH that exceeds the Part 375 UU and/or RRU SCOs and the range of concentrations above the SCOs. Analytes detected at concentrations above the RRU SCOs are shown in bold. SCOs are shown in parentheses.

- **Benzo(a)anthracene: 1.8 mg/kg** in RSB13_1-2 to **2.7 mg/kg** in RSB07_7-8 (UU and RRU SCO of 1 mg/kg)
- **Benzo(a)pyrene: 1.5 mg/kg** in RSB13_1-2 to **2.2 mg/kg** in RSB07_7-8 (UU and RRU SCO of 1 mg/kg)
- **Benzo(b)fluoranthene: 1.2 mg/kg** in RSB13_7-8 to **3.2 mg/kg** in RSB07_7-8 (UU and RRU SCO of 1 mg/kg)
- **Benzo(k)fluoranthene: 0.88 mg/kg** in RSB07_7-8 (UU SCO of 0.8 mg/kg and RRU SCO of 3.9 mg/kg)
- **Chrysene: 1.7 mg/kg** in RSB13_1-2 to 2.6 mg/kg in RSB07_7-8 (UU SCO of 1 mg/kg and RRU SCO of 3.9 mg/kg)
- **Dibenzo(a,h)anthracene: 0.35 mg/kg** in RSB07_7-8 (UU and RRU SCO of 0.33 mg/kg)
- **Indeno(1,2,3-cd)pyrene: 0.64 mg/kg** in RSB13_7-8 to **1.7 mg/kg** in RSB07_7-8 (UU and RRU SCO of 0.5 mg/kg)

SVOC impacts at RSB07 and RSB13 were vertically and horizontally delineated during this RI. SVOCs were vertically delineated as evidenced by concentrations less than the UU SCOs at the 5 to 7, 7 to 8, and 8 to 10 foot depth interval from RSB07_R and the 7 to 8 and 8 to 10 depth intervals from RSB07_13. SVOCs were horizontally delineated as evidenced by concentrations less than the UU SCOs at the 7 to 8 foot depth intervals in step-out borings RSB07_NW, RSB07_E, RSB07_S, RSB13_NW, RSB13_E, and RSB13_S. The results of the delineation sampling are shown in Figure 10.

PCBs

Total PCBs were detected at a concentration of 0.12 mg/kg above the UU SCO of 0.1 mg/kg, but below the RRU SCO of 1 mg/kg, in one surficial sample (0 to 1 feet below cellar grade) collected from RSB03.

Herbicides

Herbicides were not detected in soil samples.

Pesticides

Pesticides were not detected in soil samples.

Metals

Four metals were detected at concentrations above the Part 375 UU and/or RRU SCOs. The list below provides a summary of each metal that exceeded the Part 375 UU and/or RRU SCOs and the range of concentrations above the SCOs. Analytes detected at concentrations above the RRU SCOs are shown in bold. SCOs are shown in parentheses.

- **Lead: 622 mg/kg** in RSB10_1-2 (UU SCO of 63 mg/kg and RRU SCO of 400 mg/kg)
- **Manganese: 2,080 mg/kg** in RSB15_7-8 (UU SCO of 1,600 mg/kg and RRU SCO of 2,000 mg/kg)
- **Mercury: 0.29 mg/kg** in RSB07_7-8 (UU SCO of 0.18 mg/kg and RRU SCO of 0.81 mg/kg)
- **Zinc: 183 mg/kg** in RSB03_0-1 (UU SCO of 109 mg/kg and RRU SCO of 10,000 mg/kg)

Emerging Contaminants

Eight PFAS were detected in emerging contaminant samples; perfluorobutanoic acid (PFBA), perfluoropentanoic acid (PFPeA), perfluorohexanoic acid (PFHxA), perfluoroheptanoic acid (PFHpA), perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), n-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA), perfluorotetradecanoic acid (PFTA). 1,4-dioxane was not detected in any soil samples. Soil cleanup objectives have not been established for PFAS or 1,4-dioxane.

5.3 Groundwater Findings

5.3.1 Field Observations

Monitoring wells were gauged for non-aqueous phase liquid (NAPL) with an oil-water interface probe. NAPL was not encountered in monitoring wells. PID headspace readings above background levels were detected in monitoring wells RMW01, RMW02, RMW03, and RMW04. The maximum PID headspace reading was 41.7 ppm in RMW01 and RMW04. Depth to groundwater ranges from about 4.1 to 4.9 feet below cellar grade (about 18.1 to 18.9 feet bgs) and groundwater generally flows to the northeast.

5.3.2 Analytical Results

Seventeen groundwater samples, including two duplicate samples, were collected. Ten groundwater samples were analyzed for TCL VOCs plus 1,4-dioxane, TCL SVOCs, PCBs, pesticides/herbicides, TAL metals (total and dissolved), trivalent chromium, hexavalent chromium, total cyanide, and PFAs (21-compound list) and seven groundwater samples were analyzed for TCL VOCs and SVOCs only. A summary of the laboratory detections for groundwater samples collected during the RI is included in Tables 10 and 11, and shown on Figure 5 with comparisons to the SGVs. The analytical results are summarized below.

VOCs

Eighteen VOCs, including the petroleum-related compounds benzene, toluene, ethylbenzene, and xylenes (BTEX), were detected above the SGVs in monitoring wells RMW01, RMW02, RMW03, RMW04, RMW16, RMW18, and RMW28. The seven monitoring wells are located in the southern-central part of the site, in the vicinity of the former 550-gallon gasoline USTs and a petroleum tank room. The list below provides a summary of each VOC that exceeded the SGVs and the range of concentrations above the SGVs. SGVs are shown in parentheses.

- **1,2,4,5-Tetramethylbenzene:** 21 microgram per liter ($\mu\text{g/L}$) in RMW01 to 88 $\mu\text{g/L}$ in RMW04 (SGV of 5 $\mu\text{g/L}$)
- **1,2,4-Trimethylbenzene:** 11 $\mu\text{g/L}$ in the duplicate sample collected from RMW02 to 800 $\mu\text{g/L}$ in RMW16 (SGV of 5 $\mu\text{g/L}$)
- **1,2-Dichloropropane:** 3.8 $\mu\text{g/L}$ in RMW01 (SGV of 1 $\mu\text{g/L}$)
- **1,3,5-Trimethylbenzene:** 9.6 $\mu\text{g/L}$ in the duplicate sample collected from RMW02 to 220 $\mu\text{g/L}$ in RMW16 (SGV of 5 $\mu\text{g/L}$)
- **Acetone:** 110 $\mu\text{g/L}$ in RMW16 (SGV of 5 $\mu\text{g/L}$)
- **Acrylonitrile:** 16 $\mu\text{g/L}$ in the duplicate sample collected from RMW02 to 260 $\mu\text{g/L}$ in RMW01 (SGV of 5 $\mu\text{g/L}$)
- **Benzene:** 26 $\mu\text{g/L}$ in RMW01 (SGV of 1 $\mu\text{g/L}$)
- **Chloroform:** 13 $\mu\text{g/L}$ in RMW04 (SGV of 7 $\mu\text{g/L}$)
- **Ethylbenzene:** 5.4 $\mu\text{g/L}$ in the duplicate sample collected from RMW02 to 380 $\mu\text{g/L}$ in RMW01 (SGV of 5 $\mu\text{g/L}$)
- **Isopropylbenzene:** 5.5 $\mu\text{g/L}$ in RMW02 to 31 $\mu\text{g/L}$ in RMW16 (SGV of 5 $\mu\text{g/L}$)
- **n-Butylbenzene:** 11 $\mu\text{g/L}$ in RMW04 to 17 $\mu\text{g/L}$ in RMW03 (SGV of 5 $\mu\text{g/L}$)
- **n-Propylbenzene:** 8.6 $\mu\text{g/L}$ in RMW02 to 80 $\mu\text{g/L}$ in RMW16 (SGV of 5 $\mu\text{g/L}$)

- **Naphthalene:** 73 µg/L in RMW03 to 120 µg/L in RMW01 (SGV of 10 µg/L)
- **o-Xylene:** 6.5 µg/L in RMW02 to 620 µg/L in RMW01 (SGV of 5 µg/L)
- **p-Isopropyltoluene:** 7.4 µg/L in RMW04 (SGV of 5 µg/L)
- **p/m-Xylene:** 23 µg/L in RMW04 to 1,600 µg/L in RMW01 (SGV of 5 µg/L)
- **sec-Butylbenzene:** 7.8 µg/L in RMW16 to 16 µg/L in RMW04 (SGV of 5 µg/L)
- **Toluene:** 11 µg/L in RMW01 (SGV of 5 µg/L)

SVOCs

Six PAHs were detected above the SGVs in monitoring wells RMW04 and RMW32. The monitoring wells are located in the southern-central part of the site. The list below provides a summary of each PAH that exceeded the SGVs and the range of concentrations above the SGVs. SGVs are shown in parentheses.

- **Benzo(a)anthracene:** 0.04 µg/L in RMW04 and MW32 (SGV of 0.002 µg/L)
- **Benzo(a)pyrene:** 0.06 µg/L in MW32 (SGV of 0 µg/L)
- **Benzo(b)fluoranthene:** 0.04 µg/L in RMW04 to 0.07 µg/L in MW32 (SGV of 0.002 µg/L)
- **Benzo(k)fluoranthene:** 0.04 µg/L in MW32 (SGV of 0.002 µg/L)
- **Chrysene:** 0.05 µg/L in RMW04 to 0.06 µg/L in MW32 (SGV of 0.002 µg/L)
- **Indeno(1,2,3-cd) pyrene:** 0.04 µg/L in MW32 (SGV of 0.002 µg/L)

PCBs

PCBs were not detected in groundwater samples.

Herbicides

Herbicides were not detected in groundwater samples.

Pesticides

Pesticides were not detected in groundwater samples.

Metals

Groundwater samples collected from each well contained total and dissolved metals at concentrations above the SGVs. The list below provides a summary of each metal that exceeded the SGVs and the range of concentrations above the SGVs. SGVs are shown in parentheses.

Total Metals

- **Antimony:** 3.11 µg/L in the duplicate sample of RMW02 to 3.2 µg/L in RMW04 (SGV of 3 µg/L)
- **Arsenic:** 51.84 µg/L in the duplicate sample of RMW02 to 55.53 µg/L in RMW02 (SGV of 25 µg/L)
- **Beryllium:** 4.18 µg/L in RMW02 (SGV of 3 µg/L)
- **Chromium:** 113.6 µg/L in the duplicate sample of RMW02 to 220 µg/L in RMW02 (SGV of 50 µg/L)
- **Copper:** 246.7 µg/L in RMW02 (SGV of 200 µg/L)
- **Iron:** 1,960 µg/L in RMW07 to 174,000 µg/L in RMW02 (SGV of 300 µg/L)
- **Lead:** 27.5 µg/L in RMW04 to 171.9 µg/L in RMW02
- **Magnesium:** 47,800 µg/L in RMW06 to 62,900 µg/L in RMW05 (SGV of 35,000 µg/L)
- **Manganese:** 658.2 µg/L in RMW01 to 5,484 µg/L in RMW06 (SGV of 300 µg/L)
- **Nickel:** 136.4 µg/L in RMW02 (SGV of 100 µg/L)
- **Selenium:** 13.1 µg/L in RMW02 (SGV of 10 µg/L)
- **Sodium:** 214,000 µg/L in RMW04 to 1,590,000 µg/L in RMW05 (SGV of 20,000 µg/L)

Dissolved Metals

- **Iron:** 605 µg/L in RMW01 to 4,990 µg/L in RMW08 (SGV of 300 µg/L)
- **Magnesium:** 48,700 µg/L in RMW06 to 59,400 µg/L in RMW05 (SGV of 35,000 µg/L)
- **Manganese:** 352.4 µg/L in RMW01 to 5,559 µg/L in RMW06 (SGV of 300 µg/L)
- **Sodium:** 238,400 µg/L in RMW04 to 1,660,000 µg/L in RMW05 (SGV of 20,000 µg/L)

PFAs (21-compound list)

Perfluorooctanoic acid (PFOA) was detected in the groundwater sample collected from RMW03 at a concentration of 0.169 µg/L (169 parts per trillion [ppt]), above the USEPA health advisory of 70 ppt. Perfluorooctanesulfonic acid (PFOS) was not detected in any of the groundwater samples above the USEPA health advisory of 70 ppt. There is no NYSDEC TOGS SGVs for these compounds.

5.4 Soil Vapor Findings

Eight soil vapor samples and one indoor air sample were collected and submitted for laboratory analysis of USEPA TO-15 VOCs. No standard currently exists for soil vapor samples in New York State. Soil vapor sample results are summarized in Table 12 and shown on Figure 6.

VOCs detected in soil vapor samples include:

1,1,1-Trichloroethane (1,1,1-TCA)	Carbon disulfide	Methylene Chloride
1,2,4-Trimethylbenzene	Chloroform	n-Hexane
1,3,5-Trimethylbenzene	Chloromethane	o-Xylene
1,3-Butadiene	Cyclohexane	p/m-Xylene
2,2,4-Trimethylpentane	Dichlorodifluoromethane	Styrene
2-Butanone	Ethyl Alcohol	tert-Butyl Alcohol
4-Ethyltoluene	Ethylbenzene	Tetrachloroethene (PCE)
4-Methyl-2-pentanone	Heptane	Toluene
Acetone	iso-Propyl Alcohol	Trichloroethene (TCE)
Benzene	Methyl tert butyl ether	Trichlorofluoromethane

PCE, a chlorinated VOC (CVOC), was detected in soil vapor samples RSV02, RSV03, RSV04, RSV06, and RSV08. PCE concentrations ranged from 0.678 $\mu\text{g}/\text{m}^3$ in RSV04 to 5.66 $\mu\text{g}/\text{m}^3$ at RSV06. PCE's daughter product, TCE, was detected in RSV01 at 19.3 $\mu\text{g}/\text{m}^3$. PCE and TCE were not detected in the indoor air sample.

Total VOC concentrations ranged from about 32.52 $\mu\text{g}/\text{m}^3$ in RSV06 to 458.37 $\mu\text{g}/\text{m}^3$ in RSV03. Indoor air total VOC concentrations were 215.44 $\mu\text{g}/\text{m}^3$. Petroleum-related compounds, including BTEX, were detected in all soil vapor samples, including the indoor air sample. BTEX concentrations detected in soil vapor ranged from 15.81 $\mu\text{g}/\text{m}^3$ in RSV06 to 102.75 $\mu\text{g}/\text{m}^3$ in RSV01. The indoor air sample had a BTEX concentration of 96.77 $\mu\text{g}/\text{m}^3$.

5.5 Quality Control Results

Quality control sample results were evaluated during data validation. The duplicates, field blanks, and MS/MSD sample pairs for soil and groundwater were collected at a frequency of 1 per 20 primary samples. Full laboratory reports are provided in Appendix G.

5.6 Data Usability

New York Analytical Services Protocols (ASP) Category B laboratory reports for the soil, groundwater, soil vapor, and indoor air sample were provided by Alpha and reviewed by a Langan

data validator for samples collected during the RI and March 2018 Phase II. Data qualifiers were updated following completion of the DUSRs. The DUSRs are included in Appendix F.

The data were determined to be mostly acceptable. Completeness, defined as the percentage of analytical results that are judged to be valid, is 99%. The following result was flagged as unusable, indicating that the results are not sufficiently valid or technically supportable to be used for data interpretation:

- The sample RMW03_041818 recovered 2-fluorophenol (0%), phenol-d6 (0%) and 2,4,6-tribromophenol (0%) below the lower control limit. The associated non-detect results are qualified as unusable, denoted with the "R" qualifier, based on potential low bias. The re-extraction recovered below the lower control limit for 2-fluorophenol (14%) and phenol-d6 (9%). The associated non-detect acid extractable results are qualified as "R" based on potential low bias.

5.7 Evaluation of Potential Areas of Concern

This section discusses the results of the RI, emerging contaminant sampling, and March 2018 Phase II with respect to the potential AOCs described in Section 3.4. The Part 375 RRU SCOs are the applicable soil standards for comparison based on the anticipated use of the site as a mixed-use residential and institutional development. The results were also compared to the Part 375 UU SCOs to evaluate whether unrestricted land use is practical. AOC and sample locations are shown on Figure 7.

5.7.1 AOC 1: On-Site Open Petroleum Spill

Field evidence of petroleum impacts were observed in the south central part of the site during the Phase II ESI, emerging contaminant sampling, and RI. PID readings up to 15,000 ppm, staining, and/or petroleum odors were observed at the following locations at the given depth interval in feet below cellar slab:

- RSB01: 6 to 11.5
- RSB02: 0 to 8
- RSB03: 6 to 12
- RSB04: 7 to 11
- RSB10: 8 to 12
- RSB11: 6 to 12
- RSB12: 6 to 10
- RSB16: 6 to 8
- RSB17: 6 to 8
- RSB21: 8 to 9
- RSB22: 8 to 9
- RSB26: 6 to 9

- RSB27: 8 to 10
- RSB29: 8 to 9
- SB02: 2 to 12 ft bgs.
- RSB03A: 5 to 6 ft bgs

PID headspace readings of up to 875 ppm and petroleum-like odors were apparent at six corresponding monitoring well locations (RMW01, RMW02, RMW03, RMW04, RMW16, and MW02).

Petroleum-related VOCs were detected above the UU and/or RRU SCOs in soil samples collected between 6 and 10 feet below cellar grade (about 20 to 24 feet bgs) in soil borings RSB01, RSB10, RSB11, RSB16, RSB21, RSB26, and SB02. Petroleum-related SVOCs (i.e., PAHs) were detected above the SGVs in monitoring wells RMW04 and MW32.

Petroleum-related VOCs were detected in soil vapor and indoor air, in the south central part of the site.

AOC 1 Conclusions

Petroleum-related contamination was observed in the south-central part of the site, which formerly contained three, 550-gallon gasoline USTs and a petroleum tank room. Based on field observations and laboratory analytical results, the petroleum-impacts within this area are limited to groundwater and soil from about 6 to 12 feet below cellar grade, with the exception of RSB02 and SB02, which identified impacts starting at top of cellar grade. The depth of petroleum impacts were delineated vertically (as evidenced by the absence of visual/olfactory observations, PID readings above background, and/or analytical data indicating petroleum-related VOCs or SVOCs) at RSB01, RSB02, RSB03A, RSB04, RSB09, RB12, RSB16, RSB17, RSB21, RSB22, RSB26, RSB27, and RSB29.

The horizontal extent of petroleum impacts from the former gasoline tanks in the southern-central part of the site was delineated to the southern site boundary, and extends to the following boring locations in which petroleum impacts were absent: SB/MW01, SB/MW03, SB06, SB07, RSB08/MW08, RSB09/RMW09, RSB13, RSB13_S2, RSB20, RSB28, RSB30, RS31, RSB32/MW32, and RSB33/MW33. Petroleum-related contamination is related to the historical petroleum bulk storage at the site.

Petroleum-related VOCs were detected in soil vapor and indoor air samples at the site. Petroleum-related VOCs in soil vapor samples are likely associated with the open on-site spill, and the petroleum-related VOCs in the indoor air may be related to either the open on-site spill in the south central portion of the site, or to automotive emissions from the former use as a parking garage.

5.7.2 AOC 2: Historic Fill

Historic fill material contains SVOCs, metals, and PCBs at concentrations above the Part 375 UU and/or RRU SCOs. The historic fill layer ranges from about 2 to 7.5 feet below cellar grade (16 to 21.5 feet bgs) and predominantly consists of brown, fine- to medium-grained sand with varying amounts of silt, gravel, and concrete. The bottom of the historic fill layer was encountered either at or immediately above the groundwater interface in soil borings.

Seven PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) were detected above the Part 375 UU and/or RRU SCOs in samples collected from the historic fill layer in soil borings RSB07 and RSB13, located in the northeast part of the site.

SVOC impacts at RSB07 and RSB13 were vertically and horizontally delineated during this RI. SVOCs were vertically delineated as evidenced by concentrations less than the UU SCOs at the 5 to 7, 7 to 8, and 8 to 10 foot depth intervals from RSB07_R and the 7 to 8 and 8 to 10 depth intervals from RSB13_R. SVOCs were horizontally delineated as evidenced by concentrations less than the UU SCOs at the 7 to 8 foot depth intervals in step-out borings RSB07_NW, RSB07_E, RSB07_S, RSB13_NW, RSB13_E, and RSB13_S.

Three metals, including lead, manganese, and zinc, were detected above the UU and/or RRU SCOs in historic fill samples collected throughout the site. PAHs and mercury were detected above Part 375 UU and/or RRU SCOs in one native soil sample collected from the 7 to 8 foot interval below cellar grade in soil boring RSB07. Manganese and acetone were also detected above the Part 375 UU SCOs in native soil. Total PCBs were detected above the UU SCO in one shallow sample of historic fill collected from soil boring RSB03. PFAS (including PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFOS, NEtFOSAA, and PFTA) were detected in soil samples.

Metals (including antimony, arsenic, beryllium, chromium, copper, iron, lead, magnesium, manganese, nickel, selenium, and sodium) were detected at concentrations above the SGVs in groundwater samples. Antimony, arsenic, beryllium, chromium, copper, lead, nickel, and selenium were not detected in groundwater samples at dissolved concentrations; therefore, the detections in unfiltered samples are likely the result of suspended solids in groundwater derived from historic fill. Iron, magnesium, manganese, and sodium were detected in dissolved groundwater samples above SGVs and are characteristic of naturally-occurring groundwater conditions.

AOC 2 Conclusions

Historic fill, which is ubiquitous across the site footprint, was encountered to depths ranging from 2 to 7.5 feet below cellar grade (16 to 21.5 feet bgs). SVOCs, metals, and PCBs were detected at concentrations above the Part 375 UU and/or RRU SCOs in samples of historic fill, with the

deepest exceedances found between 7 and 8 feet below cellar grade (21 to 22 feet bgs). SVOCs and mercury were detected above Part 375 UU and/or RRU SCOs in one native soil sample collected from the 7 to 8 foot interval below cellar grade in soil boring RSB07. Manganese and acetone were also detected in native soil above the Part 375 UU SCOs; however, manganese is a naturally occurring metal, and acetone is a common laboratory contaminant. Antimony, arsenic, beryllium, chromium, copper, lead, nickel, and selenium were not detected in groundwater samples at dissolved concentrations; therefore, the detections in unfiltered samples are likely the result of suspended solids in groundwater derived from historic fill. Iron, magnesium, manganese, and sodium were detected in dissolved groundwater samples above SGVs and are characteristic of naturally-occurring groundwater conditions.

Based on the analytical data, it is not likely that the PAHs in historic fill within the northeast part of the site are the source of PAHs detected in groundwater within the south-central part of the site.

5.7.3 AOC 3: Historical Use of the Site

An automotive service facility was located at the site from approximately 1928 to 1968. Three, 550-gallon gasoline USTs associated with the automotive service facility were removed from the site in August 2009. COCs associated with AOC 3 include chlorinated solvents, and petroleum products. Petroleum impacts are addressed in AOC 1.

Dissolved metals (including iron, magnesium, manganese, and sodium) were detected at concentrations above the SGVs in groundwater samples collected throughout the site. PCE and TCE were detected at concentrations above indoor air concentrations in six soil vapor samples collected throughout the site. PFOA was detected in the groundwater sample collected from RMW03 at a concentration above the USEPA health advisory. Products frequently used in the automotive industry such as polishes, waxes, paints, varnishes, lubricants, and cleaning products may have contained PFOA.

AOC 3 Conclusions

Iron, magnesium, manganese, and sodium are naturally occurring and are not indicative of a release. CVOCs detected in soil vapor may be related to degreasing and cleaning operations performed during the historical use of the site as an automotive service facility. The PFOA detections in groundwater may be related to chemicals formerly handled during the historical site use as an automotive service facility.

5.7.4 AOC 4: Petroleum Spill at Adjoining Property

A former petroleum spill was located on the southern-adjoining property at 107 Ellwood Street/7 Sherman Avenue. NYSDEC Spill No. 0809967 was associated with soil and groundwater

contamination originating from a petroleum tank release in 2008. Although the spill was closed in 2013, endpoint groundwater sampling was not documented. Petroleum-related SVOCs were detected at concentrations above the SGVs in groundwater samples collected from RMW04 and MW32.

AOC 4 Conclusions

Evidence of petroleum-related contamination associated with the on-site spill is localized in the south-central part of the site. Based on the southern-adjointing location of NYSDEC Spill No. 0809967 and the absence of SVOCs in soil samples collected from borings RSB04 and RSB32, the petroleum-related SVOCs detected above SGVs in groundwater, are likely associated with the closed petroleum spill at the adjoining property.

5.7.5 AOC 5: Historical Use of Adjoining Property

A dry cleaning facility was located on the southern-adjointing property at 107 Ellwood Street/7 Sherman Avenue between 2001 and 2008. COCs associated with AOC 5 include PCE and its daughter products (i.e., TCE, cis-1,2-dichloroethene, and vinyl chloride). PCE has the potential to infiltrate groundwater and can readily migrate to surrounding properties. PCE and TCE were detected in six soil vapor samples collected throughout the site during the April 2018 RI. PCE was also detected in three soil vapor samples collected from the southern part of the site during the March 2018 Phase II ESI. Cis-1,2-dichloroethene and vinyl chloride were not detected in soil vapor samples.

AOC 5 Conclusions

Soil vapor samples with PCE and TCE concentrations may be indicative of a chemical release associated with historical use of the southern adjoining property as a dry cleaning facility.

6.0 QUALITATIVE HUMAN AND FISH/WILDLIFE EXPOSURE ASSESSMENT

Human health exposure risk was evaluated for both current and future on-site and off-site conditions, in accordance with NYSDEC DER-10. The assessment includes an evaluation of potential sources and migration pathways of site contamination, potential receptors, exposure media, and receptor intake routes and exposure pathways.

In addition to the human health exposure assessment, NYSDEC DER-10 requires an on-site and off-site Fish and Wildlife Resources Impact Analysis (FWRIA) if certain criteria are met. According to the requirements stipulated in Section 3.10 and Appendix 3C of DER-10, there was no need to prepare an FWRIA for the site. A completed form of DER-10 Appendix 3C is included in Appendix H.

6.1 Current Conditions

The site is located at 4650 Broadway (Block 2175, Lot 1) in the Inwood neighborhood of New York, New York, and is situated on the southwestern corner of the city block bound by Dongan Place to the north, Arden Street to the east, Sherman Avenue to the south, and Broadway to the west. The site is improved with a two-story parking garage with a full cellar and partial sub-cellar spans the site footprint (about 47,175 square feet). The southern part of the building was most recently operated by Park-it Pilot Parking LLC as a commercial parking garage, and the northern part of the building was most recently used for the storage of antique cars and construction materials. Two No.2 fuel oil USTs (one 5,000-gallon and one 2,500-gallon) and one 5,000-gallon No. 4 fuel oil AST were removed from the site in 1998. Three 550-gallon gasoline USTs were removed from the site in August 2009. There is an open NYSDEC spill (Spill No. 0902240) associated with petroleum contamination observed in the location of the former gasoline USTs.

6.2 Proposed Conditions

The proposed redevelopment project is still in early planning stages and is subject to change. Current plans call for the development to include demolition of the existing building and construction of a 19-story mixed use building with a cellar level. The new building footprint will span the entire 47,175-square-foot lot, and is anticipated to include residential units and community and commercial space. The site will need to be excavated about five feet below current cellar grade to accommodate the construction of a new cellar level and foundation components. The sub cellar will be backfilled to development depth.

6.3 Summary of Environmental Conditions

AOCs include an open petroleum spill, historic fill, historical site use, a petroleum spill at an adjoining property, and a former dry cleaning facility at an adjoining property. COCs associated with the AOCs include VOCs, SVOCs, PCBs, and metals.

Field evidence of petroleum impacts were observed in the south central part of the site during the Phase II ESI and RI. PID readings up to 15,000 ppm, staining, and/or petroleum odors were observed at the following locations at the given depth interval in feet below cellar slab:

- RSB01: 6 to 11.5
- RSB02: 0 to 8
- RSB03: 6 to 12
- RSB04: 7 to 11
- RSB10: 8 to 12
- RSB11: 6 to 12
- RSB12: 6 to 10
- RSB16: 6 to 8
- RSB17: 6 to 8
- RSB21: 8 to 9
- RSB22: 8 to 9
- RSB26: 6 to 9
- RSB27: 8 to 10
- RSB29: 8 to 9
- SB02: 2 to 12 ft bgs
- RSB03A: 5 to 6 ft bgs

PID headspace readings of up to 875 ppm and petroleum-like odors were apparent at six corresponding monitoring well locations (RMW01, RMW02, RMW03, RMW04, RMW16, and MW02).

Petroleum-related VOCs were detected above UU and/or RRU SCOs in soil samples collected between 6 and 10 feet below cellar grade (about 20 to 24 feet bgs) in soil borings RSB01, RSB10, RSB11, RSB16, RSB21, and RSB26 and SB02. Petroleum-related contamination was localized to the southern-central part of the site, which formerly contained three 550-gallon gasoline USTs and a petroleum tank room. Petroleum-related SVOCs (i.e., PAHs) were detected above the SGVs in monitoring wells RMW04 and MW32. Petroleum-related SVOCs in groundwater are likely a result of degraded fuel oil compounds from the off-site spill at the south-adjointing property.

Petroleum-related VOCs were detected in soil vapor and indoor air samples. Petroleum-related VOCs in soil vapor are likely related to the open on-site spill. Petroleum-related VOCs in indoor air may be related to either the open on-site spill in the south central portion of the site, or to automotive emissions from the former use as a parking garage.

SVOCs, metals, and PCBs were detected at concentrations above the Part 375 UU and/or RRU SCOs in samples of historic fill in the northern part of the site. PAHs and mercury were detected above Part 375 UU and/or RRU SCOs in one native soil sample collected from the 7 to 8 foot

interval below cellar grade in soil boring RSB07. PFAS (including PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFOS, NEtFOSAA, and PFTA) were detected in soil samples. 1,2-Dichloroethane (1,2-DCA) was identified in groundwater in one location at the site above the SGV. A source of 1,2-DCA was not identified at the site and 1,2-DCA is not related to historic on-site operations.

Dissolved metals, including iron, magnesium, manganese, and sodium, were detected at concentrations above the SGVs in groundwater samples collected throughout the site. Iron, magnesium, manganese, and sodium are naturally occurring and are not indicative of a release.

The CVOC, PCE, and its daughter product, TCE, were detected in nine soil vapor samples collected at the site. These CVOC concentrations in soil vapor may be related to the historical use of the site as an automotive service facility, or may be related to the historical use of the southern-adjointing property as a dry cleaning facility. PFOA was detected in the groundwater sample collected from RMW03 at a concentration above the USEPA health advisory. The PFOA detection may be related to the historical use of the site as an automotive service facility, or may be related to an off-site source.

6.4 Conceptual Site Model

A conceptual site model (CSM) has been developed based on the findings of the RI. The purpose of the CSM is to develop a simplified framework for understanding the distribution of impacted materials, potential migration pathways, and potentially complete exposure pathways.

6.4.1 Potential Sources of Contamination

Potential sources of contamination include historical petroleum bulk storage at the site, historic fill, the historical site use as an automotive service facility, a petroleum spill at an adjoining property, and the historical use of an adjoining property as a dry cleaning facility.

Historic fill material encountered beneath surface cover to depths ranging from about 2 to 7.5 feet below cellar grade (16 to 21.5 feet bgs) originated from unidentified source areas and was placed as backfill at an unknown time, prior to the development of the current on-site building. Total PCBs detected at a concentration above the Part 375 UU SCO collected near the site's southern perimeter is likely related to the historic fill. SVOCs, specifically PAHs, detected at concentrations above the Part 375 UU and/or RRU SCOs may be related to the nature of historic fill. Metals detected at concentrations above the Part 375 UU and/or RRU SCOs are related to the historic fill. PAHs and mercury were detected above Part 375 UU and/or RRU SCOs in one native soil sample collected from the 7 to 8 foot interval below cellar grade in soil boring RSB07; however, these detections are likely a result of infiltration of historic fill material into the borehole during sample collection.

Evidence of petroleum-related contamination observed in the south-central part of the site is related to a historical release from three, 550-gallon gasoline tanks, which were removed in August 2009. Evidence of petroleum-related SVOCs in the groundwater may be related to the a petroleum-spill at the southern adjoining property.

The PFOA detection in groundwater may be related to the historical use of the site as an automotive service facility, or may be related to an off-site source.

PCE and TCE detections in soil vapor may be indicative of a chemical release associated with the historical use of the site as an automotive service facility, or may be related to the historical use of the southern adjoining property as a dry cleaning facility.

6.4.2 Exposure Media

The impacted media include soil, groundwater, and soil vapor. Petroleum-related VOCs and SVOCs in soil and groundwater were detected above standards in the southern-central part of the site. Historic fill-related metals were detected in soil across the site. PAHs were identified in historic fill material in the northeast corner of the site (RSB07 and RSB13), and total PCBs were identified in historic fill material near the southern site perimeter (RSB03). PCE and TCE were detected in four soil vapor samples collected throughout the site footprint.

6.4.3 Receptor Populations

The site is improved with a two-story parking garage with a full cellar and partial sub-cellar. Current receptor populations include investigation workers. During site development, human receptors will be limited to construction and remediation workers, authorized guests visiting the site, and the public and pedestrians adjacent to the site. Under future conditions, receptors will include the residential and commercial use occupants, employees, and the nearby community, including children.

6.5 Potential Exposure Pathways – On-Site

6.5.1 Current Conditions

The site is covered by an impervious surface (the concrete building slab). Human exposure to contaminated soil through dermal absorption, inhalation, and ingestion is minimal and controlled through the presence of the impervious surface. There is a potential exposure pathway through dermal absorption, inhalation, and ingestion during soil sampling associated with site investigation, but it is controlled through implementation of the Health and Safety Plan (HASP).

As groundwater in this area of New York City is not used as a potable water source, a complete exposure pathway to groundwater under current site conditions is unlikely. There is a potential

exposure pathway through dermal absorption and ingestion during groundwater sampling associated with site investigation, but it is controlled through implementation of the HASP. The indoor air sample collected in the former parking garage contained concentrations of petroleum-related VOCs that may be related to automotive emissions from the former use as a parking garage, or to vapors emanating through preferential pathways in the concrete foundation slab; therefore, there may be a potential exposure pathway to contaminated vapors in the indoor air through inhalation. Because the site is vacant, the inhalation of site-related contaminants due to soil vapor intrusion does not represent a current concern.

There is a potential exposure pathway to soil vapor through inhalation during soil, groundwater, and soil vapor sampling associated with site investigation. This pathway is controlled through implementation of the HASP.

6.5.2 Construction/Remediation Conditions

Construction and remediation may result in potential exposures to site contaminants in the absence of a HASP and a Community Air Monitoring Plan (CAMP). Construction and remedial activities include demolition, the excavation and off-site disposal of impacted soil and construction of foundation components. In the absence of a HASP and CAMP, this scenario presents the potential for exposure of soil COCs to construction and remediation workers via dermal absorption, ingestion, and inhalation of vapors and particulate matter. This exposure pathway will be marginalized through the implementation of the HASP, CAMP, and vapor and dust suppression techniques.

Groundwater may be encountered during excavation by workers, and there is potential for exposure to groundwater COCs, in the absence of a HASP, to construction workers via dermal absorption or ingestion. This exposure pathway will be marginalized through the implementation of the HASP.

During site development, construction and remediation workers and the surrounding community could be exposed to soil vapor COCs and contaminated soil via inhalation. Exposure to soil vapor and dust will be limited through the implementation of a HASP, CAMP, and dust and vapor suppression techniques.

6.5.3 Proposed Future Conditions

It is likely that a Track 1 remedy (i.e., complete removal of soil COCs above SCOs) can be achieved at the site; however, if a Track 1 remedy cannot be achieved, the site will be developed with the use of institutional controls (ICs) and engineering controls (ECs), as necessary, to control

exposure to future tenants, visitors and workers to residual contamination. If a Track 1 remedy is not achieved, the following ECs and ICs are planned for the proposed development:

1. If residual groundwater contamination is present after the remedy is implemented, the waterproofing/vapor barrier membrane system incorporated into the new building foundation under future build conditions will serve as an engineering control to mitigate exposure to residual soil vapor and contaminated groundwater.
2. Deed restrictions on use of groundwater, allowable uses of the site, and vegetable farming will be placed on the property as part of remediation.
3. There is no risk of ingesting groundwater COCs because the site and surrounding area will continue to obtain their drinking water supply from surface water reservoirs located upstate and not from groundwater.

6.6 Potential Exposure Pathways – Off-Site

6.6.1 Current Conditions

The site is covered with continuous impervious surface cover (concrete building slab), therefore exposure to dust emanating from site soil is unlikely. Contaminated soil vapor that may migrate through cracks would be expected to dissipate readily in ambient air and not present an exposure risk to off-site receptors. The groundwater impacts identified on-site could potentially migrate off-site, but since groundwater in the surrounding area is not used as a potable water source, no complete exposure pathway exists.

6.6.2 Construction/Remediation Conditions

Contaminated soil has the potential to be transported off-site by wind in the form of dust or by the tires of vehicles or equipment leaving the site during development, and create an exposure risk to the public adjacent to the site during construction. Contaminated soil vapor would be expected to dissipate readily in ambient air and not present an exposure risk to off-site receptors. Nonetheless, air monitoring will be conducted for particulates (i.e., dust) and VOCs during all intrusive activities as part of a CAMP. Dust and/or vapor suppression techniques will be employed to limit the potential for off-site migration of soil and vapors. Vehicle tires and undercarriages will be washed as necessary prior to leaving the site to prevent tracking material off-site. A soil erosion/sediment control plan will be implemented during construction to control off-site migration of soil. The groundwater impacts identified on-site could potentially migrate off-site during development, but since groundwater in the surrounding area is not used as a potable water source, no complete exposure pathway exists. If groundwater is removed during construction, groundwater will be pre-treated and discharged to the New York City sewer

system, per NYCDEP permit requirements. Therefore, the potential for public exposure to groundwater on adjacent sites will be minimized.

6.6.3 Proposed Future Conditions

It is possible that a Track 1 remedy (i.e., complete removal of soil COCs above SCOs) may be achieved on the site. If all contaminants cannot be removed from the site, the site will be developed with the use of institutional controls (ICs) and engineering controls (ECs), as necessary, to control off-site exposure to residual contamination. If a Track 1 remedy is not achieved, the potential off-site migration of site contaminants in soil, groundwater and soil vapor is not expected to result in a complete exposure pathway for future conditions because the site will be covered with a building and capping system that will prevent exposure to off-site receptors of residual soil and soil vapor. The new building will include a waterproofing/vapor barrier to be installed beneath the cellar slab and along the sidewalls to sidewalk grade. A continuous impervious surface covering comprised of the proposed building slab will span the site footprint. Further, groundwater in the area is not used as a potable water source and the nearest ecological receptor, the Hudson River, is located about 1,400 feet west of the site.

6.7 Evaluation of Human Health Exposure

Based on the CSM and the review of environmental data, complete on-site exposure pathways appear to be present, in the absence of engineering controls, in current and construction-phase conditions. The complete exposure pathways indicate there is a risk of exposure to humans from site contaminants via exposure to soil, groundwater, and soil vapor if mitigation and controls are not implemented.

Complete exposure pathways have the following five elements: 1) a contaminant source; 2) a contaminant release and transport mechanism; 3) a point of exposure; 4) a route of exposure; and 5) a receptor population. A discussion of the five elements comprising a complete pathway as they pertain to the site is provided below.

6.7.1 Current Conditions

Contaminant sources include historic fill with varying concentrations of SVOCs, metals, PCBs and PFAS; petroleum-impacted soil and groundwater containing varying concentrations of VOCs and SVOCs; and soil vapor with CVOCs.

Contaminant release and transport mechanisms include potential release and transport during penetration of the site cover for soil, groundwater, and soil vapor sampling. The potential receptor is the on-site sampling personnel and the nearby public. Under current conditions, the likelihood of exposure to humans is limited due to the following:

- The site footprint is covered by a continuous concrete building slab, which prevents direct contact with soil, groundwater, and soil vapor.
- Sampling activities are completed in accordance with a HASP and CAMP that is designed to monitor and prevent exposure to soil, groundwater, and soil vapor contaminants.
- Groundwater at the site is not a potable water source.

6.7.2 Construction/Remediation Activities

During the excavation and foundation construction stage of redevelopment, which includes remediation, points of exposure include disturbed and exposed soil during excavation, dust and potential organic vapors generated during excavation, and contaminated groundwater encountered during excavation and/or dewatering operations. Routes of exposure include ingestion and dermal absorption of contaminated soil and groundwater, inhalation of potential organic vapors arising from contaminated soil vapor and groundwater, and inhalation of dust originating from contaminated soil. The receptor population includes construction and remediation workers and, to a lesser extent, the public adjacent to the site.

The potential for completed exposure pathways is present since all five elements exist; however, the risk can be avoided or minimized by applying appropriate health and safety measures during construction and remediation, such as monitoring the air for organic vapors and dust, using vapor and dust suppression measures, cleaning truck undercarriages and securing tarp covers before they leave the site to prevent off-site soil tracking, maintaining site security, and wearing the appropriate personal protective equipment (PPE).

A HASP, a RAWP, and a CAMP that include measures such as conducting an air-monitoring program, donning PPE, covering soil stockpiles, altering work sequencing, maintaining a secure construction entrance, proper housekeeping, and applying vapor and dust suppression measures to prevent off-site migration of contaminants during construction will be implemented. Such measures will prevent completion of potential migration pathways for soil, groundwater, and soil vapor.

6.7.3 Proposed Future Conditions

For the proposed future conditions, residual contaminants may remain on-site, depending on the efficacy of the groundwater remedy. If residual impacts exist and engineering/institutional controls are not implemented, points of exposure could include potential cracks in the foundation of the proposed development, exposure during any future ground-intrusive work, or inhalation of vapors entering the building. The receptor population includes residential and commercial use occupants, employees, and the nearby community, including children. The possible routes of exposure can be avoided or mitigated by removal of contaminated soil or construction and

maintenance of a site capping system (e.g., concrete building slab or at least 2 feet of clean soil), installation of a waterproofing/vapor barrier, and implementation of a Site Management Plan (SMP), if necessary depending on the remedy.

6.7.4 Human Health Exposure Assessment Conclusions

1. Human exposure to site contaminants is limited under current conditions due to the surface cover, and access is limited to investigation workers. The primary exposure pathways are dermal contact, ingestion, and inhalation of soil, groundwater, or soil vapor by site investigation workers and, to a lesser extent, the nearby public. The exposure risks can be avoided or minimized by following the appropriate HASP and vapor and dust suppression measures, and by implementing a CAMP during investigation activities.
2. In the absence of mitigation and controls, there is potential for exposure during the construction-phase activities. The primary exposure pathways are:
 - a. Dermal contact, ingestion, and inhalation of contaminated soil, groundwater, or soil vapor by construction workers.
 - b. Dermal contact, ingestion, and inhalation of soil (dust) and inhalation of soil vapor by the community in the vicinity of the site.

These can be avoided or minimized by implementing CAMP and by following the appropriate HASP, vapor and dust suppression, site security measures, and following a NYSDEC-approved RAWP.

3. The existence of a complete exposure pathway for site contaminants to human receptors during proposed future conditions is unlikely, as contaminated soil will be excavated and transported to an off-site disposal facility, groundwater will be remediated, and residual soil will be capped, if required, with an impermeable cover or 2 feet of clean soil. Regional groundwater is not used as a potable water source in New York City. The potential pathway for soil vapor intrusion into the building would be addressed by installation of a waterproofing/vapor barrier, which will minimize soil vapor infiltration. A sub-membrane depressurization system cannot be installed since the foundation will be beneath the water table.
4. It is possible that a complete exposure pathway exists for the migration of site contaminants to off-site human receptors during current, construction-phase, and future conditions. Monitoring and control measures have been and will continue to be used during investigation and construction to prevent completion of this pathway. Under future conditions, the site will be remediated and engineering and institutional controls will be implemented, if necessary, to prevent completion of this pathway.

7.0 NATURE AND EXTENT OF CONTAMINATION

This section evaluates the nature and extent of soil, groundwater, and soil vapor contamination. The nature and extent of the contamination is derived from a combination of field observations and analytical data that were discussed in Section 5.0.

7.1 Soil Contamination

Historic fill predominantly consisting of brown, fine- to medium-grained sand with varying amounts of silt, gravel, and concrete was encountered across the site beneath the surface cover to depths ranging from about 2 to 7.5 feet below cellar grade (16 to 21.5 feet bgs). SVOCs detected at concentrations above the Part 375 UU and/or RRU SCOs in the northeastern part of the site may be related to the nature of historic fill.

Petroleum-related contamination in the south-central part of the site was identified from about 6 to 12 feet below cellar grade, with the exception of RSB02 and SB02, which identified impacts starting at top of cellar grade. The depth of petroleum impacts were delineated vertically (as evidenced by the absence of visual/olfactory observations, PID readings above background, and/or analytical data indicating petroleum-related VOCs or SVOCs) at RSB01, RSB02, RSB03A, RSB04, RB12, RSB16, RSB17, RSB21, RSB22, RSB26, RSB27, and RSB29.

The horizontal extent of the petroleum impacts in the southern-central part of the site was delineated to the southern site boundary, and is defined by petroleum impacts in soil and groundwater at RSB01/RMW01, RSB02/RMW02, RSB03/RMW03, RSB04/RMW04, RSB10, RSB11, RSB12, RSB16/RMW16, RSB17, RSB18/RMW18, RSB21, RSB22, RSB26, RSB27, RSB28/RMW28, RSB29, and SB02/MW02 and absence of petroleum impacts in SB06, SB/MW01, SB07, RSB09/MW09, RSB13, RSB13_S2, RSB18, RSB19, RSB20, RSB27, RSB28/MW28, RSB30, RS31, RSB32/MW32, and RSB33/MW33. The petroleum impacted area is roughly 12,500 square feet and occupies about 25% of the site. Petroleum-related contamination is related to the historical petroleum bulk storage at the site.

Metals, which were detected at concentrations above the Part 375 UU and/or RRU SCOs in samples of historic fill, are likely related to the nature of historic fill material.

Total PCBs were detected at a concentration above the Part 375 UU SCO in one sample and are likely related to the nature of the historic fill material.

PFAS were detected in twelve samples and are likely related to the nature of historic fill material.

7.2 Groundwater Contamination

PID headspace readings of up to 41.7 ppm, petroleum-like odors, and petroleum-related VOCs and/or SVOCs above SGVs were observed at monitoring wells MW02, RMW01, RMW02, RMW03, RMW04, RMW16, RMW28, and MW32. Petroleum impacts to groundwater were delineated horizontally by the absence of visual/olfactory observations, PID headspace readings above background, and/or petroleum-related VOCs above SGVs in monitoring wells RMW05, RMW08, RMW09, RMW18, RMW30, MW32, and MW33. Petroleum-related VOCs were localized to the southern-central part of the site and are related to the historical petroleum bulk storage at the site. Petroleum-related SVOCs above SGVs in RMW04 and MW32 are likely related to the former fuel oil spill on the south-adjointing property.

1,2-Dichloroethane (1,2-DCA) was identified in groundwater in one location at the site above the SGV. A source of 1,2-DCA was not identified at the site and 1,2-DCA is not related to historic on-site operations.

Dissolved metals (including iron, magnesium, manganese, and sodium) were detected at concentrations above the SGVs in groundwater samples collected throughout the site. Iron, magnesium, manganese, and sodium are naturally occurring and are not indicative of a release.

7.3 Soil Vapor Contamination

The soil vapor samples contained PCE and TCE at concentrations d in soil vapor that may be indicative of a chemical release associated with historical site use, or may be related to the historical use of the southern-adjointing property as a dry cleaning facility. The petroleum-related VOCs detected in the soil vapor are likely related to the open petroleum spill in the south-central part of the site. The petroleum-related VOCs in the indoor air may be related to either the open on-site petroleum spill, or the automotive emissions from the former use of the site as a parking garage.

8.0 CONCLUSIONS

The conclusions are based on data collected during the RI. The findings summarized herein are based on qualitative data (field observations and instrumental readings) and laboratory analytical soil, groundwater, and soil vapor sample results. Findings and conclusions are as follows:

1. Stratigraphy: Historic fill predominantly consisting of brown, fine- to medium-grained sand with varying amounts of silt, gravel, and concrete was encountered across the site from below the cellar slab to depths ranging from about 2 to 7.5 feet below cellar grade (16 to 21.5 feet bgs). Native soil encountered below historic fill predominantly consists of fine- to medium-grained sand with varying amounts of gravel and silt. Bedrock was encountered during a geotechnical investigation performed by Langan in April and May 2018 and consists of gneiss, mica schist, and marble. The top of bedrock varies from about 30 to 88 feet below cellar grade. The bedrock surface is irregular and generally slopes down to the west and to the north. Boring data indicates bedrock is shallowest within the southeastern part of the site.
2. Hydrogeology: Synoptic groundwater measurements were collected on May 9, 2018 from nine of the monitoring wells installed during the April 2018 RI. Groundwater elevations range between el 20.62 to el 21.6 feet, which corresponds to depths of about 4.1 to 4.9 feet below cellar grade (about 18.1 to 18.9 feet bgs). Groundwater flow is to the northeast. Underground utilities and other subsurface structures may locally influence the direction of groundwater flow.
3. Petroleum Impacts in Soil, Groundwater and Soil Vapor: Petroleum impacts were identified across an area of roughly 12,500 square feet, occupying about 25% of the southern part of the site. Petroleum-related VOCs were detected above the UU and/or RRU SCOs in soil samples collected between 6 and 10 feet below cellar grade (about 20 to 24 feet bgs) within this area. PID headspace readings of up to 875 ppm, petroleum-like odors, and petroleum-related VOCs above the SGVs were observed at monitoring well locations within the petroleum-impacted area. Petroleum-related contamination was localized to the southern-central part of the site, which formerly contained three, 550-gallon gasoline USTs and a petroleum tank room. Petroleum-related VOCs in soil and groundwater are related to the historical petroleum bulk storage at the site, but may also be related to the historical use of the site as an automotive service facility.

Petroleum-related SVOCs above SGVs were observed in groundwater samples collected from upgradient monitoring wells. The source of PAH-impacted groundwater is likely related to the former petroleum spill at the south adjoining property.

4. Historic Fill: Laboratory analytical results indicate that the historic fill contains SVOCs, metals, and PCBs at concentrations above the Part 375 UU and/or RRU SCOs. The

deepest samples exceeding the SCOs were found between 7 and 8 feet below cellar grade (21 to 22 feet bgs). PFAS were detected in historic fill samples.

5. Native Soil: Mercury and seven PAHs were detected above Part 375 UU and/or RRU SCOs in a native soil sample collected between 7 to 8 feet below cellar grade (21 to 22 feet bgs) in soil boring RSB07; however, these detections are likely a result of infiltration of historic fill material into the borehole during sample collection. Manganese and acetone were also detected above the Part 375 UU SCOs; however, manganese is a naturally occurring metal, and acetone is a common laboratory contaminant.
6. Soil Vapor: The soil vapor samples contained CVOC concentrations which were not detected in the indoor air sample. The PCE and TCE concentrations detected in soil vapor may be indicative of a chemical release associated with historical site use, or may be related to the historical use of the southern-adjointing property as a dry cleaning facility. The petroleum-related VOCs detected in the sub-slab soil vapor are likely related to the open petroleum spill in the south-central part of the site. The petroleum-related VOCs detected in indoor air may be related to either the open on-site spill in the south central portion of the site, or to automotive emissions from the former use as a parking garage.

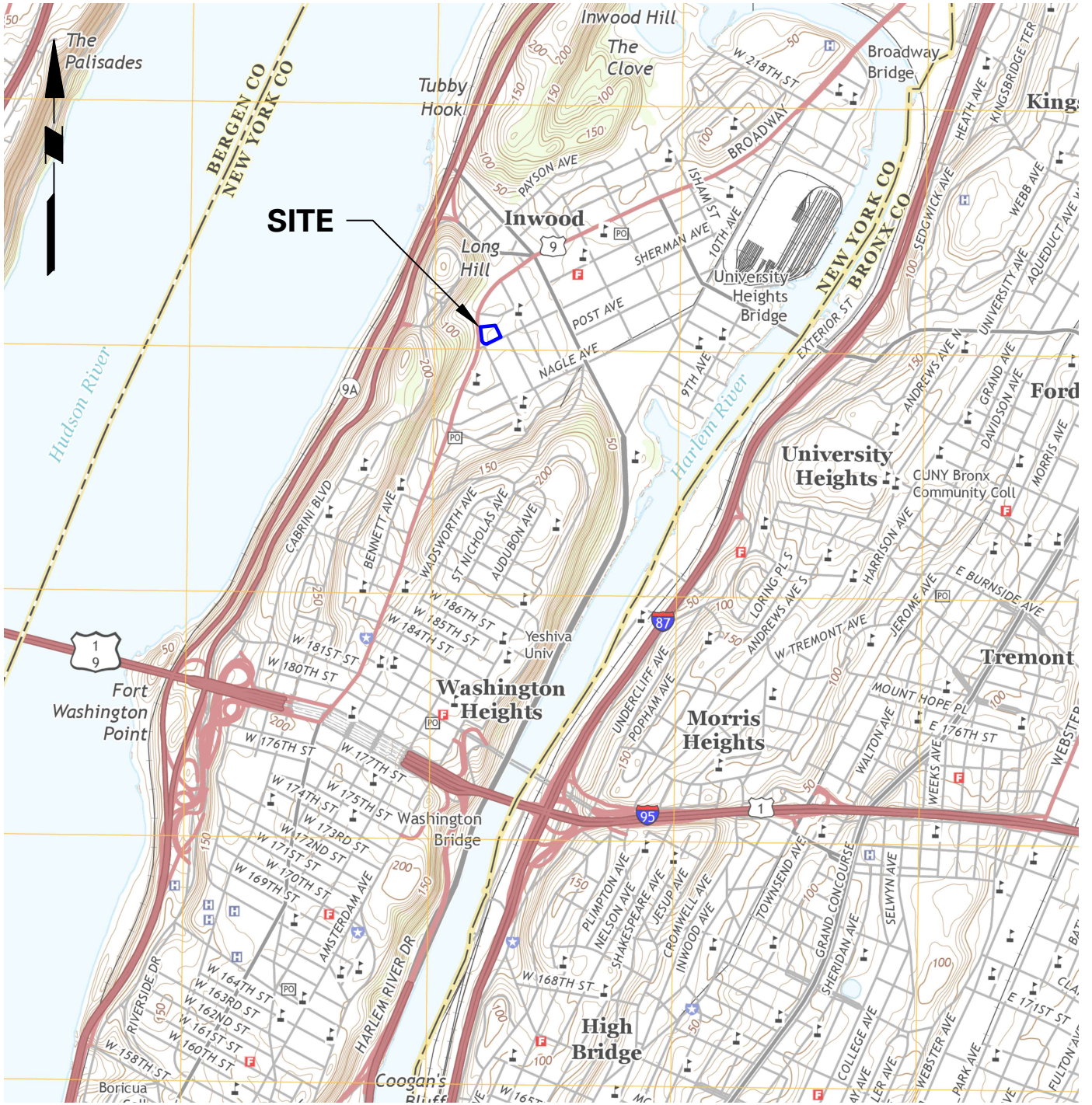
Sufficient analytical data were gathered during the 2018 RI and 2019 emerging contaminant sampling to establish site-specific soil cleanup levels and to develop a remedy for the site. The remedy will be described and evaluated in the RAWP prepared in accordance with New York State BCP guidelines. The remedy will address impacts to soil, groundwater, and soil vapor described in this RIR.

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FIGURES



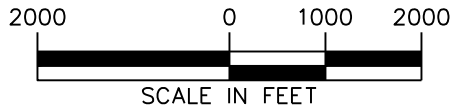
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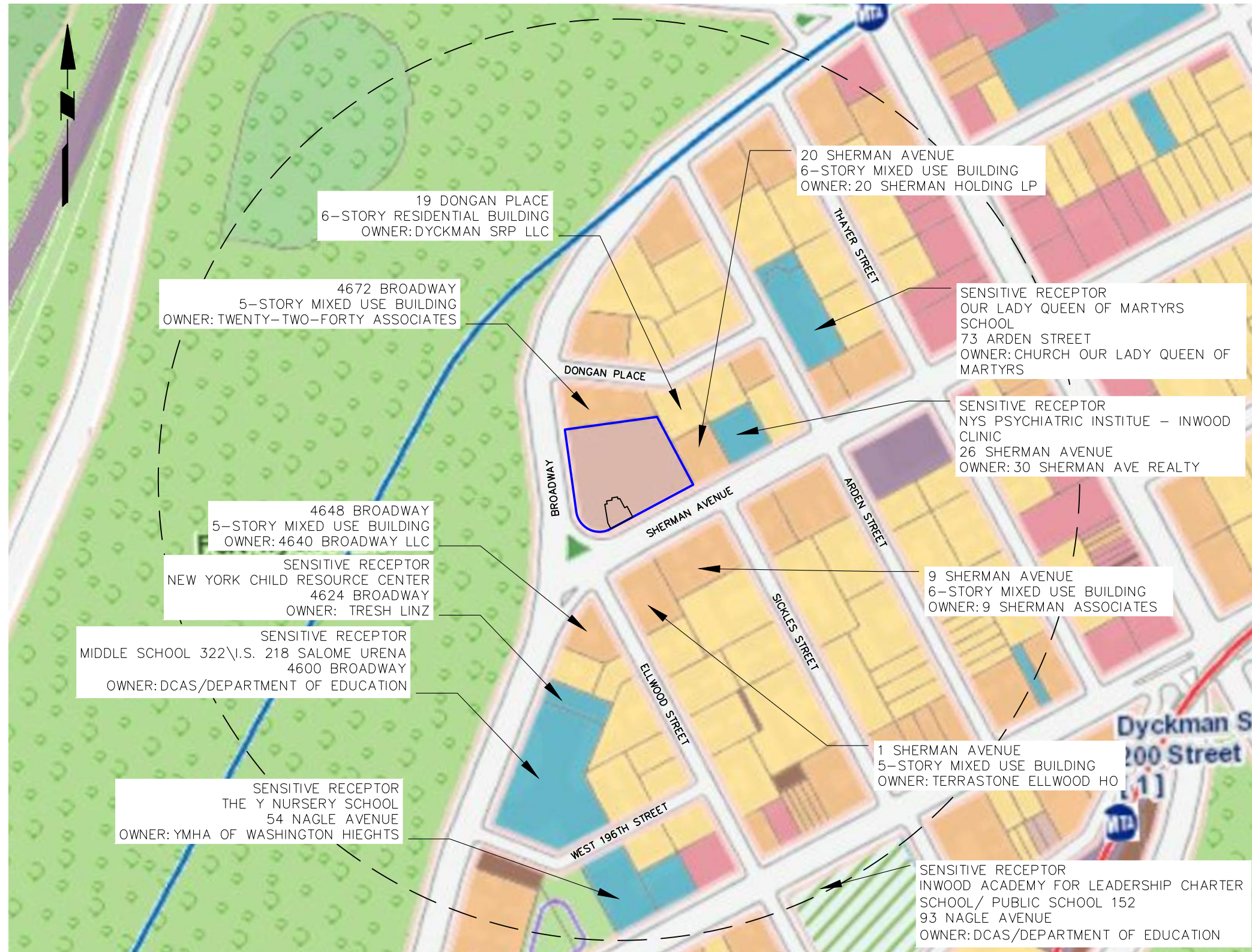
NOTE:

BASEMAP REFERENCE: USGS 7.5-MINUTE SERIES QUADRANGLE MAP OF CENTRAL PARK, NY, DATED 2016






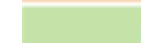






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<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001</p> <p>T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Project 4650 BROADWAY BLOCK No. 2175, LOT No. 1 CITY NEW YORK NEW YORK</p>	<p>Drawing Title SITE LOCATION MAP</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Project No. 170505501</td> <td rowspan="4" style="width: 50%; text-align: center; vertical-align: middle; font-size: 2em;">1</td> </tr> <tr> <td>Date 05/09/2018</td> </tr> <tr> <td>Drawn By JFY</td> </tr> <tr> <td>Checked By BG</td> </tr> </table> <p style="text-align: right;">Sheet 1 of 11</p>	Project No. 170505501	1	Date 05/09/2018	Drawn By JFY	Checked By BG
	Project No. 170505501	1						
Date 05/09/2018								
Drawn By JFY								
Checked By BG								

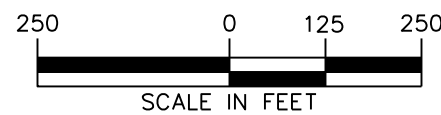


LEGEND:

-  APPROXIMATE SITE BOUNDARY
-  1000-FOOT RADIUS
-  1 & 2 FAMILY RESIDENTIAL
-  MULTI-FAMILY RESIDENTIAL
-  MIXED USE
-  OPEN SPACE & OUTDOOR RECREATION
-  COMMERCIAL
-  INSTITUTIONS
-  INDUSTRIAL
-  PARKING
-  TRANSPORTATION/UTILITIES
-  VACANT LOTS

NOTES:

1. BASE MAP TAKEN FROM WWW.OASISNYC.NET/MAP ON MAY 9, 2018.



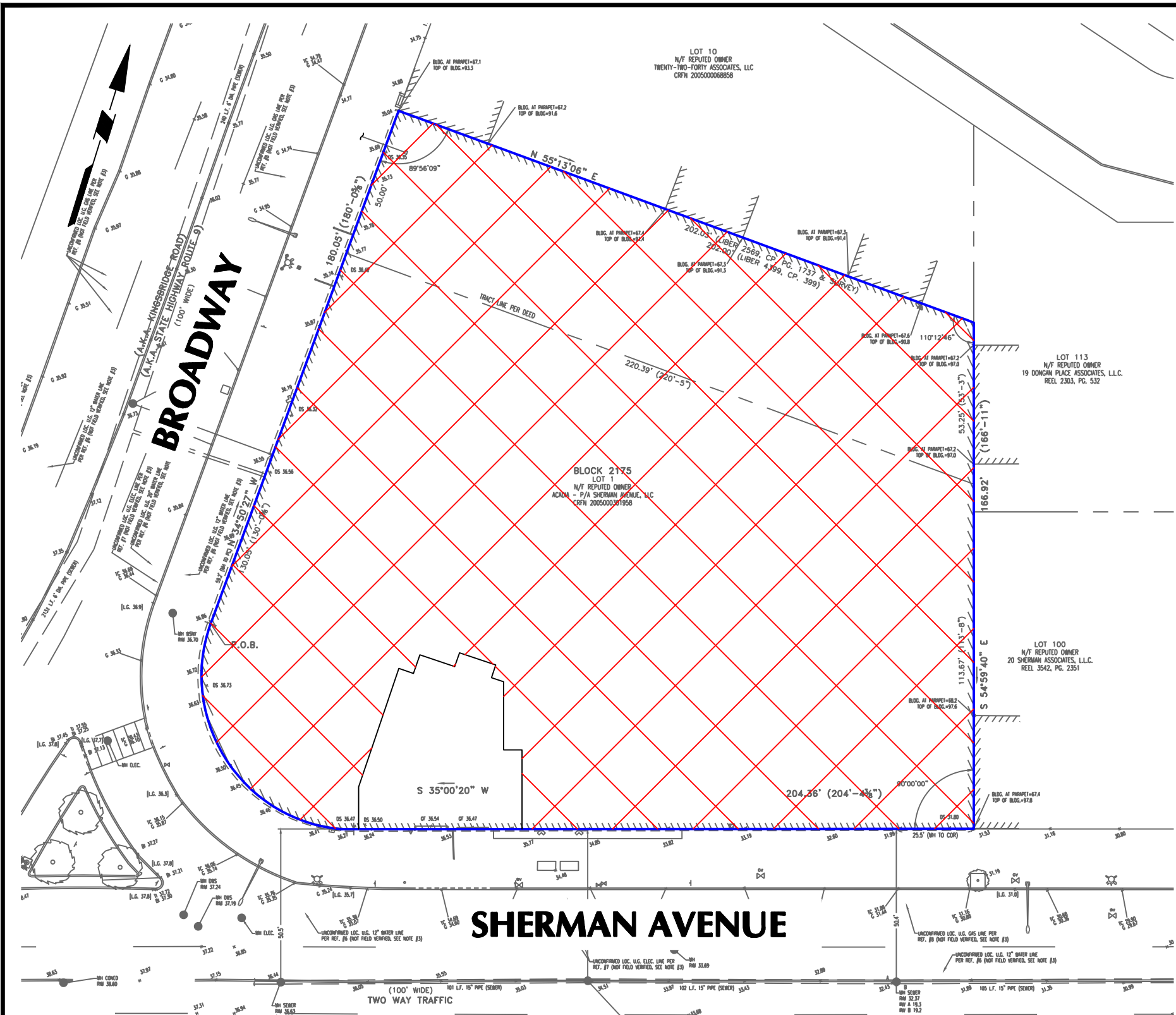
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Project
4650 BROADWAY
BLOCK No. 2175, LOT No. 1
NEW YORK NEW YORK

Figure Title
**SURROUNDING
LAND USE MAP**

Project No. 170505501	Figure No. 2
Date 04/04/2018	
Drawn By JFY	
Checked By BG	
Sheet 2 of 11	

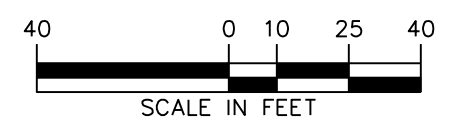


LEGEND:

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE SUB-CELLAR BOUNDARY
- ▣ PROPOSED EXTENT OF EXCAVATION BELOW CELLAR (ABOUT 5 FEET BELOW CELLAR GRADE)

NOTES:

1. BASEMAP: BOUNDARY & TOPOGRAPHIC SURVEY, PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005.
2. CELLAR GRADE IS APPROXIMATELY 14 FEET BELOW SIDE WALK GRADE AND THE SUB-CELLAR IS APPROXIMATELY 20 FEET BELOW SIDE WALK GRADE.



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Project	4650 BROADWAY
	BLOCK No. 2175, LOT No. 1
NEW YORK	NEW YORK

Figure Title	EXTENT OF EXCAVATION MAP
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Project No.	170505501	3 Sheet 3 of 11
Date	05/20/2018	
Drawn By	JFY	
Checked By	JL	

Sample Location	RSB15		
	RSB15_1-2	RSB15_7-8	RSB15_11-12
	1-2	7-8	11-12
Sample ID			
Sample Depth (ft bgs)			
Sample Date	4/10/2018	4/10/2018	4/10/2018
VOCs (mg/kg)			
Acetone	ND	ND	0.077 J
SVOCs (mg/kg)			
Total SVOCs	NE	ND	ND
PCBs (mg/kg)			
Total PCBs	ND	ND	ND
Pesticides (mg/kg)			
Total Pesticides	ND	ND	ND
Herbicides (mg/kg)			
Total Herbicides	ND	ND	ND
Metals (mg/kg)			
Manganese	NE	2080 J	NE

Sample Location	RSB21	
	RSB21_8-9	RSB21_11-12
	8-9	11-12
Sample ID		
Sample Depth (ft bgs)		
Sample Date	7/30/2018	7/30/2018
VOCs (mg/kg)		
Total VOCs	0.86	NE
SVOCs (mg/kg)		
Total SVOCs	NE	ND
PCBs (mg/kg)		
Total PCBs	NA	NA
Pesticides (mg/kg)		
Total Pesticides	NA	NA
Herbicides (mg/kg)		
Total Herbicides	NA	NA
Metals (mg/kg)		
Total Metals	NA	NA

Sample Location	RSB07	
	RSB07_1-2	RSB07_7-8
	1-2	7-8
Sample ID		
Sample Depth (ft bgs)		
Sample Date	4/10/2018	4/10/2018
VOCs (mg/kg)		
Total VOCs	ND	NE
SVOCs (mg/kg)		
Total SVOCs	NE	2.7
PCBs (mg/kg)		
Total PCBs	NE	2.2
Pesticides (mg/kg)		
Total Pesticides	NE	3.2
Herbicides (mg/kg)		
Total Herbicides	ND	0.88
Metals (mg/kg)		
Total Metals	NE	2.6
PCBs (mg/kg)		
Total PCBs	NE	0.35
Pesticides (mg/kg)		
Total Pesticides	NE	1.7
Herbicides (mg/kg)		
Total Herbicides	ND	ND
Metals (mg/kg)		
Mercury	NE	0.29

Sample Location	RSB08		
	RSB08_14-15	RSB08_14-15	RSB08_14-15
	1-2	7-8	14-15
Sample ID			
Sample Depth (ft bgs)			
Sample Date	4/10/2018	4/10/2018	4/10/2018
VOCs (mg/kg)			
Acetone	ND	ND	0.06 J
SVOCs (mg/kg)			
Total SVOCs	NE	NE	ND
PCBs (mg/kg)			
Total PCBs	ND	ND	ND
Pesticides (mg/kg)			
Total Pesticides	ND	ND	ND
Herbicides (mg/kg)			
Total Herbicides	ND	ND	ND
Metals (mg/kg)			
Total Metals	NE	NE	NE

Sample Location	SB05	
	SB05_1-2	SB05_1-2
	1-2	1-2
Sample ID		
Sample Depth (ft bgs)		
Sample Date		3/12/2018
VOCs (mg/kg)		
Total VOCs		NE
SVOCs (mg/kg)		
Total SVOCs		NE
PCBs (mg/kg)		
Total PCBs		ND
Pesticides (mg/kg)		
Total Pesticides		NA
Herbicides (mg/kg)		
Total Herbicides		NA
Metals (mg/kg)		
Lead		104

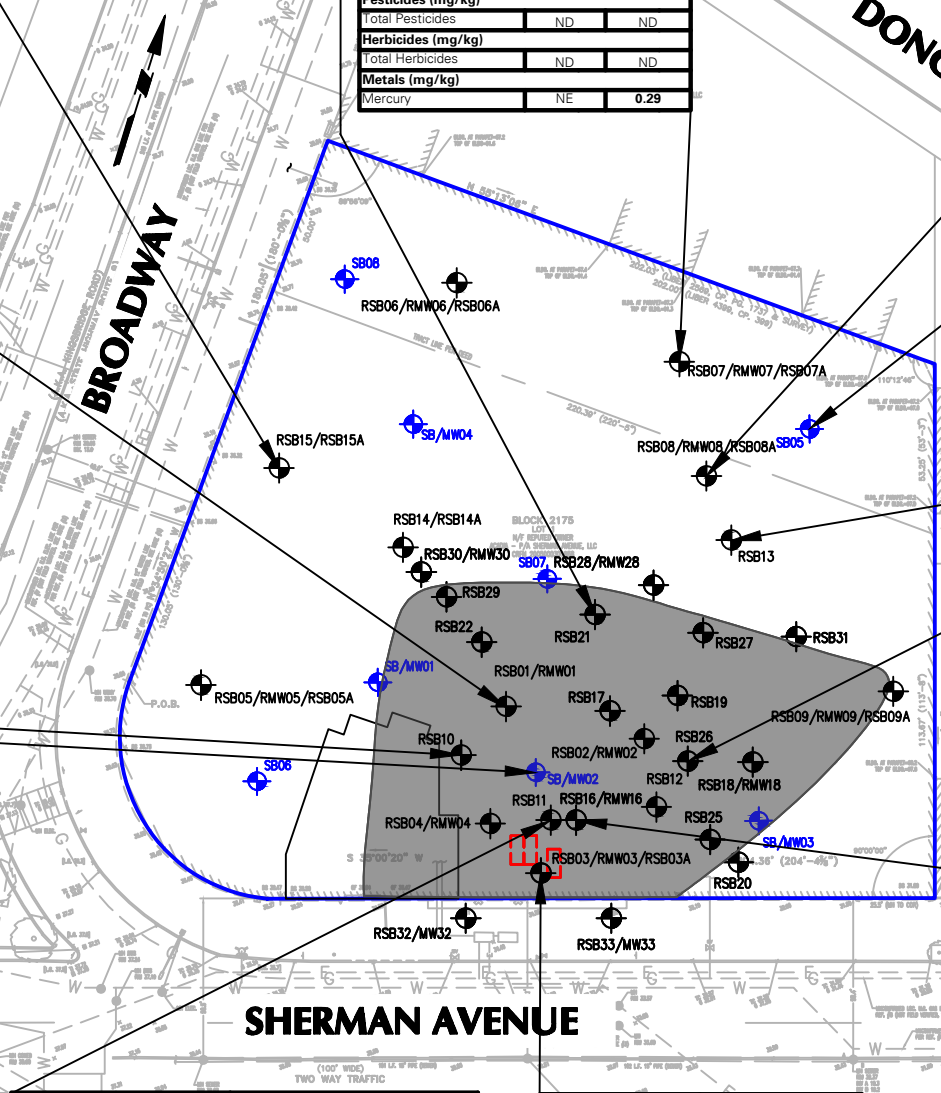
LEGEND:

- APPROXIMATE SITE BOUNDARY
- RSB10: RI SOIL BORING LOCATION
- RSB01/RMW01: RI SOIL BORING AND MONITORING WELL LOCATION
- SB/RMW01: PHASE II ESI SOIL BORING AND MONITORING WELL LOCATION
- SB07: PHASE II ESI BORING LOCATION
- FORMER GASOLINE UST LOCATION (CNS, 2009)
- APPROXIMATE EXTENT OF SUB-CELLAR

Sample Location	RSB01			
	RSB01_1-2	RSBDUP02_041118	RSB01_6-7	RSB01_10-11
	1-2	1-2	6-7	10-11
Sample ID				
Sample Depth (ft bgs)				
Sample Date	4/11/2018	4/11/2018	4/11/2018	4/11/2018
VOCs (mg/kg)				
1,2,4-Trimethylbenzene	NE	NE	6.4	NE
Total Xylenes	NE	NE	9.4	NE
SVOCs (mg/kg)				
Total SVOCs	NE	NE	NE	NE
PCBs (mg/kg)				
Total PCBs	ND	ND	ND	ND
Pesticides (mg/kg)				
Total Pesticides	ND	ND	ND	ND
Herbicides (mg/kg)				
Total Herbicides	ND	ND	NE	ND
Metals (mg/kg)				
Total Metals	NE	NE	NE	NE

Sample Location	RSB10		
	RSB10_1-2	RSBDUP01_040918	RSB10_9-10
	1-2	1-2	9-10
Sample ID			
Sample Depth (ft bgs)			
Sample Date	4/9/2018	4/9/2018	4/9/2018
VOCs (mg/kg)			
1,2,4-Trimethylbenzene	NE	NE	28
1,3,5-Trimethylbenzene (Mesitylene)	NE	ND	10
Total Xylenes	ND	ND	2.1 J
SVOCs (mg/kg)			
Total SVOCs	ND	ND	ND
PCBs (mg/kg)			
Total PCBs	ND	NE	NE
Pesticides (mg/kg)			
Total Pesticides	ND	ND	ND
Herbicides (mg/kg)			
Total Herbicides	ND	ND	ND
Metals (mg/kg)			
Lead	622 J	NE	NE

Sample Location	SB02	
	SB02_6-7	SB02_6-7
	6-7	6-7
Sample ID		
Sample Depth (ft bgs)		
Sample Date		3/12/2018
VOCs (mg/kg)		
1,2,4-Trimethylbenzene		730
1,3,5-Trimethylbenzene (Mesitylene)		220
Ethylbenzene		110
Naphthalene		77
n-Butylbenzene		21
n-Propylbenzene		77
Toluene		23
Total Xylenes		1200
SVOCs (mg/kg)		
Total SVOCs		NE
PCBs (mg/kg)		
Total PCBs		ND
Pesticides (mg/kg)		
Total Pesticides		NA
Herbicides (mg/kg)		
Total Herbicides		NA
Metals (mg/kg)		
Total Metals		NE



Sample Location	RSB13	
	RSB13_1-2	RSB13_7-8
	1-2	7-8
Sample ID		
Sample Depth (ft bgs)		
Sample Date	4/10/2018	4/10/2018
VOCs (mg/kg)		
Total VOCs	NE	NE
SVOCs (mg/kg)		
Total SVOCs	1.8	NE
PCBs (mg/kg)		
Total PCBs	1.5	NE
Pesticides (mg/kg)		
Total Pesticides	1.9	1.2
Herbicides (mg/kg)		
Total Herbicides	1.7	NE
Metals (mg/kg)		
Lead	1.1	0.84

Location	RSB26	
	RSB26_7-8	RSB26_10-11
	7-8	10-11
Sample ID		
Sample Depth (ft bgs)		
Sample Date	7/31/2018	7/31/2018
VOCs (mg/kg)		
Total Xylenes	0.76	NE
SVOCs (mg/kg)		
Total SVOCs	NE	ND
PCBs (mg/kg)		
Total PCBs	ND	NA
Pesticides (mg/kg)		
Total Pesticides	ND	NA
Herbicides (mg/kg)		
Total Herbicides	ND	NA
Metals (mg/kg)		
Total Metals	ND	NA

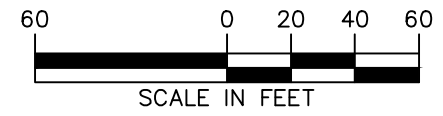
Sample Location	RSB16		
	RSB16_6-8	RSB16_13-14	RSBDUP03_072718
	6-8	13-14	7-8
Sample ID			
Sample Depth (ft bgs)			
Sample Date	7/26/2018	7/27/2018	7/27/2018
VOCs (mg/kg)			
1,2,4-Trimethylbenzene	200	ND	ND
1,3,5-Trimethylbenzene (Mesitylene)	68	ND	ND
Ethylbenzene	2.4	ND	ND
Methylene Chloride	3.4 J	ND	ND
n-Propylbenzene	29	ND	ND
Total Xylenes	31	ND	ND
SVOCs (mg/kg)			
Total SVOCs	NE	ND	ND
PCBs (mg/kg)			
Total PCBs	NA	NA	NA
Pesticides (mg/kg)			
Total Pesticides	NA	NA	NA
Herbicides (mg/kg)			
Total Herbicides	NA	NA	NA
Metals (mg/kg)			
Total Metals	NA	NA	NA

Sample Location	RSB11		
	RSB11_1-2	RSB11_5-6	RSB11_8-9
	1-2	5-6	8-9
Sample ID			
Sample Depth (ft bgs)			
Sample Date	4/9/2018	4/9/2018	4/9/2018
VOCs (mg/kg)			
1,2,4-Trimethylbenzene	NE	NE	530
1,3,5-Trimethylbenzene (Mesitylene)	NE	ND	160
n-Butylbenzene	ND	ND	30
n-Propylbenzene	ND	ND	67
Sec-Butylbenzene	ND	ND	14
Total Xylenes	ND	ND	2.8 J
SVOCs (mg/kg)			
Total SVOCs	ND	NE	NE
PCBs (mg/kg)			
Total PCBs	ND	ND	ND
Pesticides (mg/kg)			
Total Pesticides	ND	ND	ND
Herbicides (mg/kg)			
Total Herbicides	ND	ND	ND
Metals (mg/kg)			
Total Metals	NE	NE	NE

Sample Location	RSB03	
	RSB03_0-1	RSB03_7-8
	0-1	7-8
Sample ID		
Sample Depth (ft bgs)		
Sample Date	4/11/2018	4/11/2018
VOCs (mg/kg)		
Total VOCs	NE	NE
SVOCs (mg/kg)		
Total SVOCs	NE	NE
PCBs (mg/kg)		
Total PCBs	0.12 J	NE
Pesticides (mg/kg)		
Total Pesticides	ND	ND
Herbicides (mg/kg)		
Total Herbicides	ND	ND
Metals (mg/kg)		
Zinc	183	NE

- NOTES:**
- BASEMAP: BOUNDARY & TOPOGRAPHIC SURVEY, PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005.
 - ELEVATIONS ARE BASED UPON THE BOROUGH OF MANHATTAN DATUM, APPROXIMATELY 2.750 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK.
 - MONITORING WELL LOCATIONS ARE APPROXIMATE.
 - RI = REMEDIAL INVESTIGATION
 - BORINGS SB01 THROUGH SB08, RSB01 THROUGH RSB22, RSB25 THROUGH RSB31, WERE ADVANCED FROM CELLAR GRADE, WHICH IS APPROXIMATELY 14 FEET BELOW SIDEWALK GRADE. BORINGS RMW32 AND RMW33 WERE ADVANCED FROM SIDEWALK GRADE.
 - SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO TITLE 6 OF THE NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 375 UNRESTRICTED USE (UU) AND RESTRICTED USE RESTRICTED-RESIDENTIAL (RRU) SOIL CLEANUP OBJECTIVES (SCOs).
 - RESULTS EXCEEDING UU SCOs ARE BOLDED.
 - RESULTS EXCEEDING RRU SCOs ARE SHADED AND BOLDED.
 - ONLY RESULTS WITH DETECTED CONCENTRATIONS ABOVE UU AND/OR RRU SCOs ARE SHOWN.
 - SOIL SAMPLE ANALYTICAL RESULTS FROM BORINGS RSB02, RSB04, RSB05, RSB06, RSB09, RSB12, RSB14, RSB17, RSB18, RSB19, RSB20, RSB22, RSB25, RSB28, RSB29, RSB30, RSB31, RSB32, RSB33, SB01, SB03, SB04, SB06, SB07, AND SB08 DID NOT EXCEED SCOs, AND ARE NOT SHOWN ON THIS FIGURE.
 - SOIL SAMPLES WERE COLLECTED AT CELLAR GRADE, WHICH IS ABOUT 14 FEET BELOW SIDEWALK GRADE.
 - mg/kg = MILLIGRAMS PER KILOGRAM
 - VOCs = VOLATILE ORGANIC COMPOUNDS
 - SVOCs = SEMIVOLATILE ORGANIC COMPOUNDS
 - PCBs = POLYCHLORINATED BIPHENYLS
 - NE = NO EXCEEDANCES
 - ND = NOT DETECTED
 - NA = NOT ANALYZED
 - UST = UNDERGROUND STORAGE TANK
 - J = THE ANALYTE WAS DETECTED ABOVE THE METHOD DETECTION LIMIT (MDL), BUT BELOW THE REPORTING LIMIT (RL); THEREFORE, THE RESULT IS AN ESTIMATED CONCENTRATION.
 - FT BGS = FEET BELOW GRADE SURFACE
 - ESI = ENVIRONMENTAL SITE INVESTIGATION

Analytes	NYSDEC UU SCOs	RRU SCOs
VOCs (mg/kg)		
1,2,4-Trimethylbenzene	3.6	52
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52
Acetone	0.05	100
Ethylbenzene	1	41
Methylene Chloride	0.05	100
Naphthalene	12	100
n-Butylbenzene	12	100
n-Propylbenzene	3.9	100
Sec-Butylbenzene	11	100
Toluene	0.7	100
Total Xylenes	0.26	100
SVOCs (mg/kg)		
Benzol(a)Anthracene	1	1
Benzol(a)Pyrene	1	1
Benzol(k)Fluoranthene	1	1
Benzol(k)Fluoranthene	0.8	3.9
Chrysene	1	3.9
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	0.5	0.5
Naphthalene	12	100
PCBs (mg/kg)		
Polychlorinated Biphenyl (PCBs)	0.1	1
Metals (mg/kg)		
Lead	63	400
Manganese	1600	2000
Mercury	0.18	0.81
Zinc	109	10000



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LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com	Project 4650 BROADWAY BLOCK No. 2175, LOT No. 1 NEW YORK NEW YORK	Figure Title SOIL SAMPLE ANALYTICAL RESULTS MAP	Project No. 170505501 Date 10/03/2019 Drawn By JG Checked By JL	Figure No. 4 Sheet 4 of 11
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Sample Location	Sample ID	Sample Date	Sample Date
MW04	MW04_031218	3/12/2018	3/12/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW06	RMW06_041918	4/19/2018	4/19/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW28	RMW28_080718	8/7/2018	8/7/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW07	RMW07_041918	4/19/2018	4/19/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW08	RMW08_041918	4/19/2018	4/19/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW09	RMW09_041918	4/19/2018	4/19/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW02	RMW02_041818	4/18/2018	4/18/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

LEGEND:

- APPROXIMATE SITE BOUNDARY
- RI SOIL BORING AND MONITORING WELL LOCATION
- PHASE II ESI SOIL BORING AND MONITORING WELL LOCATION
- FORMER GASOLINE UST LOCATION (CNS, 2009)
- APPROXIMATE EXTENT OF SUB-CELLAR

NOTES:

1. BASEMAP: BOUNDARY & TOPOGRAPHIC SURVEY, PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005.
2. ELEVATIONS ARE BASED UPON THE BOROUGH OF MANHATTAN DATUM, APPROXIMATELY 2.750 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK.
3. SAMPLE LOCATIONS ARE APPROXIMATE.
4. RI = REMEDIAL INVESTIGATION
5. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS (AWQS) AND GUIDANCE VALUES FOR DRINKING WATER (CLASS GA)(COLLECTIVELY REFERRED TO AS THE STANDARDS AND GUIDANCE VALUES (SGVs)).
6. REGULATORY CRITERIA DO NOT EXIST FOR PERFLUORINATED AND POLYFLUORINATED ALKYL SUBSTANCES AND 1,4-DIOXANE IN NEW YORK STATE. PERFLUORINATED AND POLYFLUORINATED ALKYL SUBSTANCES AND 1,4-DIOXANE ARE COMPARED TO THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) HEALTH ADVISORY LEVEL.
7. RESULTS EXCEEDING SGVs AND/OR THE USEPA HEALTH ADVISORY LEVEL ARE SHADED AND BOLDED.
8. ONLY RESULTS WITH DETECTED CONCENTRATIONS ABOVE SGVs ARE SHOWN. GROUNDWATER SAMPLE ANALYTICAL RESULTS FROM RMW30 AND MW33 DID NOT EXCEED SGVs, AND ARE NOT SHOWN.
9. GROUNDWATER SAMPLES WERE COLLECTED AT CELLAR GRADE, WHICH IS ABOUT 14 FEET BELOW SIDEWALK GRADE.
10. µg/L = MICROGRAMS PER LITER
11. VOCs = VOLATILE ORGANIC COMPOUNDS
12. SVOCs = SEMIVOLATILE ORGANIC COMPOUNDS
13. PCBs = POLYCHLORINATED BIPHENYLS
14. NE = NO EXCEEDANCES
15. ND = NOT DETECTED
16. NA = NOT ANALYZED
17. UST = UNDERGROUND STORAGE TANK
18. J = THE ANALYTE WAS DETECTED ABOVE THE METHOD DETECTION LIMIT (MDL), BUT BELOW THE REPORTING LIMIT (RL); THEREFORE, THE RESULT IS AN ESTIMATED CONCENTRATION.
19. PFAS = PER- AND POLYFLUOROALKYL SUBSTANCES
20. ESI = ENVIRONMENTAL SITE INVESTIGATION

Analytes	SGVs
VOCs (pp/L)	
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
1,2-Dichloroethane	0.6
1,2-Dichloropropane	1
1,3,5-Trimethylbenzene (Mesitylene)	5
Acetone	50
Acrylonitrile	5
Benzene	1
Chloroform	7
Cymene	5
Ethylbenzene	5
Isopropylbenzene (Cumene)	5
M,P-Xylene	5
Naphthalene	10
n-Butylbenzene	5
n-Propylbenzene	5
o-Xylene (1,2-Dimethylbenzene)	5
Sec-Butylbenzene	5
Toluene	5
Total Xylenes	5
SVOCs (pp/L)	
Benzofluoranthene	0.002
Benzofluoranthene	0.002
Benzofluoranthene	0.002
Chrysene	0.002
Indeno(1,2,3-c,d)Pyrene	0.002
Total and Dissolved Metals (pp/L)	
Antimony	3
Arsenic	25
Beryllium	3
Chromium, Total	50
Copper	200
Iron	300
Lead	25
Magnesium	35000
Manganese	300
Nickel	100
Selenium	10
Sodium	20000
PFAS	
Perfluorooctanoic Acid	USEPA Health Advisory Level 0.07

Sample Location	Sample ID	Sample Date	Sample Date
RMW01	RMW01_041918	4/19/2018	4/19/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW05	RMW05_041918	4/19/2018	4/19/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
MW01	MW01_031218	3/12/2018	3/12/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

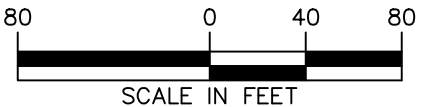
Sample Location	Sample ID	Sample Date	Sample Date
MW02	MW02_031218	3/12/2018	3/12/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
MW32	MW32_091218	9/12/2018	9/12/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW04	RMW04_041818	4/18/2018	4/18/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW03	RMW03_041818	4/18/2018	4/18/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			

Sample Location	Sample ID	Sample Date	Sample Date
RMW16	RMW16_080718	8/7/2018	8/7/2018
VOCs (pp/L)			
Total VOCs			
Total SVOCs			
PCBs (pp/L)			
Total PCBs			
Pesticides (pp/L)			
Total Pesticides			
Herbicides (pp/L)			
Total Herbicides			
Total Metals (pp/L)			
Iron			
Manganese			
Sodium			
Dissolved Metals (pp/L)			
Iron			
Manganese			
Sodium			
PFAS (pp/L)			
Total PFAS			



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<p>Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Project</p> <p>4650 BROADWAY</p> <p>BLOCK No. 2175, LOT No. 1</p> <p>NEW YORK NEW YORK</p>	<p>Figure Title</p> <p>GROUNDWATER SAMPLE ANALYTICAL RESULTS MAP</p>	<p>Project No.</p> <p>170505501</p> <p>Date</p> <p>10/5/2018</p> <p>Drawn By</p> <p>VZ</p> <p>Checked By</p> <p>JL</p>	<p>Figure No.</p> <p>5</p> <p>Sheet 5 of 11</p>
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Sample Location	RSV07
Sample ID	RSV07_041118
Sample Date	4/11/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	4.44
1,3,5-Trimethylbenzene (Mesitylene)	1.05
1,3-Butadiene	0.538
2,2,4-Trimethylpentane	3.43
4-Ethyltoluene	1.28
Acetone	81.7
Benzene	11.1
Carbon Disulfide	3.95
Chloroform	3.97
Cyclohexane	1.23
Dichlorodifluoromethane	1.79 J
Ethanol	55
Ethylbenzene	4
Isopropanol	6.46 J
M,P-Xylene	15.5
Methyl Ethyl Ketone (2-Butanone)	3.69
Methylene Chloride	6.53
n-Heptane	5.66
n-Hexane	3.74
o-Xylene (1,2-Dimethylbenzene)	5.34
Tert-Butyl Alcohol	2.94
Tert-Butyl Methyl Ether	1.1
Toluene	28.1
Trichlorofluoromethane	1.19
Total VOCs	245.47

Sample Location	RSV08
Sample ID	RSV08_041118
Sample Date	4/11/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	17.3
Acetone	126
M,P-Xylene	23.1
n-Heptane	8.57
o-Xylene (1,2-Dimethylbenzene)	12
Tetrachloroethylene (PCE)	1.42
Toluene	18
Total VOCs	206.39

Sample Location	SV01
Sample ID	SV01_031218
Sample Date	3/12/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	19.7
1,3,5-Trimethylbenzene (Mesitylene)	5.95
1,3-Butadiene	3.03
2,2,4-Trimethylpentane	9.53
4-Ethyltoluene	5.9
Acetone	1340
Benzene	11.4
Carbon Disulfide	22.4
Chloroform	3.46
Chloromethane	4.27
Cyclohexane	8.64
Dichlorodifluoromethane	2.94
Ethanol	81.6
Ethylbenzene	11
Isopropanol	25.6 J
M,P-Xylene	45.2
Methyl Ethyl Ketone (2-Butanone)	32.7
n-Heptane	41.8
n-Hexane	52.5
o-Xylene (1,2-Dimethylbenzene)	16
Tert-Butyl Methyl Ether	3.24
Toluene	27.2
Total VOCs	1,774.06

Sample Location	RSV06
Sample ID	RSV06_041118
Sample Date	4/11/2018
VOCs (µg/m³)	
1,1,1-Trichloroethane	0.546
1,2,4-Trimethylbenzene	10.5
M,P-Xylene	9.73
o-Xylene (1,2-Dimethylbenzene)	6.08
Tetrachloroethylene (PCE)	5.66
Total VOCs	32.52

Sample Location	RSV04
Sample ID	RSV04_041118
Sample Date	4/11/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	14.7
1,3,5-Trimethylbenzene (Mesitylene)	5.51
Acetone	74.4
Carbon Disulfide	4.17
M,P-Xylene	16.9
o-Xylene (1,2-Dimethylbenzene)	9.73
Tetrachloroethylene (PCE)	0.678
Toluene	7.39
Total VOCs	133.48

Sample Location	RSV05
Sample ID	RSV05_040918
Sample Date	4/9/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	10.2
Acetone	16.1
M,P-Xylene	14
o-Xylene (1,2-Dimethylbenzene)	9.56
Toluene	7.8
Total VOCs	57.66

Sample Location	SV03
Sample ID	SV03_031218
Sample Date	3/12/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	18.2
1,3,5-Trimethylbenzene (Mesitylene)	5.26
1,3-Butadiene	1.87
2,2,4-Trimethylpentane	14.6
4-Ethyltoluene	6.54
Acetone	361
Benzene	15.1
Carbon Disulfide	9.62
Cyclohexane	3.3
Dichlorodifluoromethane	2.68
Ethylbenzene	5.52
Isopropanol	4.38 J
M,P-Xylene	24
Methyl Ethyl Ketone (2-Butanone)	12.4
n-Heptane	13.3
n-Hexane	11.7
o-Xylene (1,2-Dimethylbenzene)	10.9
Tert-Butyl Methyl Ether	3.25
Tetrachloroethylene (PCE)	9.9
Toluene	23
Total VOCs	556.52

Sample Location	RAA01
Sample ID	AA01_040918
Sample Date	4/9/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	12.1
1,3,5-Trimethylbenzene (Mesitylene)	3.61
1,3-Butadiene	2.74
2,2,4-Trimethylpentane	12.5
4-Ethyltoluene	3.42
Acetone	27.1
Benzene	13.7
Chloromethane	1.12
Cyclohexane	2.43
Dichlorodifluoromethane	1.76 J
Ethanol	36.4
Ethylbenzene	7.17
M,P-Xylene	29
n-Heptane	5.94
n-Hexane	7.47
o-Xylene (1,2-Dimethylbenzene)	10.3
Styrene	0.911
Toluene	36.6
Trichlorofluoromethane	1.17
Total VOCs	213.681

Sample Location	RSV03
Sample ID	RSV03_041018
Sample Date	4/10/2018
VOCs (µg/m³)	
1,1,1-Trichloroethane	0.682
1,2,4-Trimethylbenzene	19.1
1,3,5-Trimethylbenzene (Mesitylene)	6.29
4-Ethyltoluene	4.92
Acetone	115
Chloroform	179
Ethanol	77.3
Ethylbenzene	4.39
M,P-Xylene	18.2
o-Xylene (1,2-Dimethylbenzene)	9.9
Tert-Butyl Alcohol	12.2
Tetrachloroethylene (PCE)	3.29
Toluene	8.1
Total VOCs	458.37







Sample Location	SV04
Sample ID	SV04_031218
Sample Date	3/12/2018
VOCs (µg/m³)	
1,1,1-Trichloroethane	3.52
1,2,4-Trimethylbenzene	22.1
1,3,5-Trimethylbenzene (Mesitylene)	6.1
2,2,4-Trimethylpentane	4.05
4-Ethyltoluene	6.34
Acetone	508
Benzene	7.44
Carbon Disulfide	84.7
Ethanol	27.9
Ethylbenzene	9.47
Isopropanol	9.54 J
M,P-Xylene	36
Methyl Ethyl Ketone (2-Butanone)	18.6
n-Heptane	11.2
n-Hexane	5.5
o-Xylene (1,2-Dimethylbenzene)	14.4
Styrene	2.34
Tert-Butyl Methyl Ether	16.2
Tetrachloroethylene (PCE)	9.7
Toluene	14.5
Total VOCs	817.6

Sample Location	RSV02
Sample ID	RSV02_041018
Sample Date	4/10/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	10.7
Acetone	68.9
Carbon Disulfide	4.55
M,P-Xylene	9.9
o-Xylene (1,2-Dimethylbenzene)	5.82
Tetrachloroethylene (PCE)	1.12
Toluene	6.1
Trichloroethylene (TCE)	0.564
Total VOCs	107.65

Sample Location	RSV01
Sample ID	RSV01_040918
Sample Date	4/9/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	11
1,3,5-Trimethylbenzene (Mesitylene)	3.21
1,3-Butadiene	0.456
2,2,4-Trimethylpentane	6.31
4-Ethyltoluene	2.8
Acetone	43.9
Benzene	7.44
Carbon Disulfide	6.85
Chloromethane	0.434
Cyclohexane	2.98
Dichlorodifluoromethane	1.97 J
Ethanol	98
Ethylbenzene	8.51
Isopropanol	20.5 J
M,P-Xylene	35.6
Methyl Ethyl Ketone (2-Butanone)	4.45
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.63
Methylene Chloride	5.77
n-Heptane	7.34
n-Hexane	4.86
o-Xylene (1,2-Dimethylbenzene)	12.8
Styrene	1.47
Tert-Butyl Alcohol	2.34
Toluene	38.4
Trichloroethylene (TCE)	19.3
Trichlorofluoromethane	1.16
Total VOCs	328.01

Sample Location	SV02
Sample ID	SV02_031218
Sample Date	3/12/2018
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	16.6
Acetone	141
Benzene	15.7
Carbon Disulfide	11.8
Chloroform	64.9
Cyclohexane	24.2
M,P-Xylene	26.8
n-Heptane	8.97
n-Hexane	12.2
o-Xylene (1,2-Dimethylbenzene)	12.4
Tetrachloroethylene (PCE)	2.92
Toluene	13.2
Total VOCs	350.69

LEGEND:

-  APPROXIMATE SITE BOUNDARY
-  RSV04 RI SOIL VAPOR POINT LOCATION
-  RAA01 RI INDOOR AIR SAMPLE LOCATION
-  SV01 PHASE II ESI SOIL VAPOR POINT LOCATION
-  FORMER GASOLINE UST LOCATION (CNS, 2009)
-  APPROXIMATE EXTENT OF SUB-CELLAR

NOTES:

1. BASEMAP: BOUNDARY & TOPOGRAPHIC SURVEY, PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005.
2. ELEVATIONS ARE BASED UPON THE BOROUGH OF MANHATTAN DATUM, APPROXIMATELY 2.750 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK.
3. SAMPLE LOCATIONS ARE APPROXIMATE.
4. RI = REMEDIAL INVESTIGATION
5. SOIL VAPOR SAMPLES WERE COLLECTED AT CELLAR GRADE, WHICH IS ABOUT 14 FEET BELOW SIDEWALK GRADE.
6. ONLY DETECTED COMPOUNDS ARE SHOWN.
7. µg/m3 = MICROGRAM PER CUBIC METER
8. VOCs = VOLATILE ORGANIC COMPOUNDS
9. UST = UNDERGROUND STORAGE TANK
10. ESI = ENVIRONMENTAL SITE INVESTIGATION

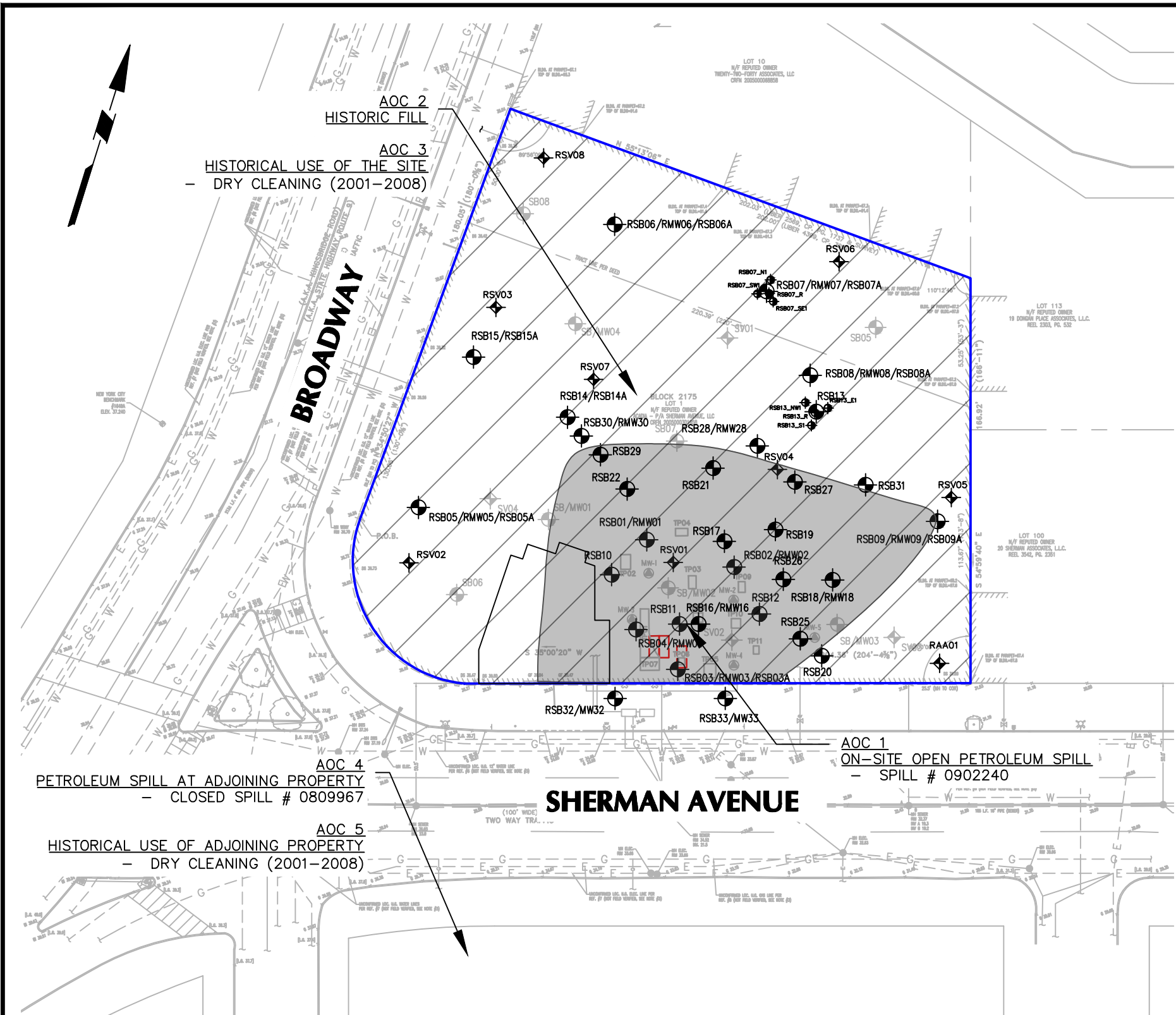


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Project
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Figure Title
SOIL VAPOR SAMPLE ANALYTICAL RESULTS MAP

Project No. 170505501	Figure No. 6
Date 10/5/2018	
Drawn By VZ	
Checked By JL	Sheet 6 of 11



LEGEND:

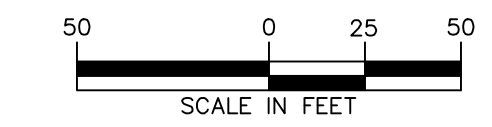
- APPROXIMATE SITE BOUNDARY
- RSB10 RI SOIL BORING LOCATION
- RSB01/RMW01 RI SOIL BORING AND MONITORING WELL LOCATION
- RSB13_NW2 RI SVOC DELINEATION BORING
- RSV04 RI SOIL VAPOR SAMPLE POINT
- RAA01 RI INDOOR AIR SAMPLE LOCATION
- SB02 PHASE II ESI SOIL BORING LOCATION
- SB/MW01 PHASE II ESI SOIL BORING AND MONITORING WELL LOCATION
- SV01 PHASE II ESI SOIL VAPOR POINT
- PREVIOUS TEST PIT (CNS, 2009)
- PREVIOUS MONITORING WELL (CNS, 2009)
- FORMER GASOLINE UST LOCATION (CNS, 2009)
- AOC 1
- AOC 2 AND 3

AREAS OF CONCERN

- AOC 1 - ON-SITE OPEN PETROLEUM SPILL
- AOC 2 - HISTORIC FILL
- AOC 3 - HISTORICAL USE OF THE SITE
- AOC 4 - PETROLEUM SPILL AT ADJOINING PROPERTY
- AOC 5 - HISTORICAL USE OF THE ADJOINING PROPERTY

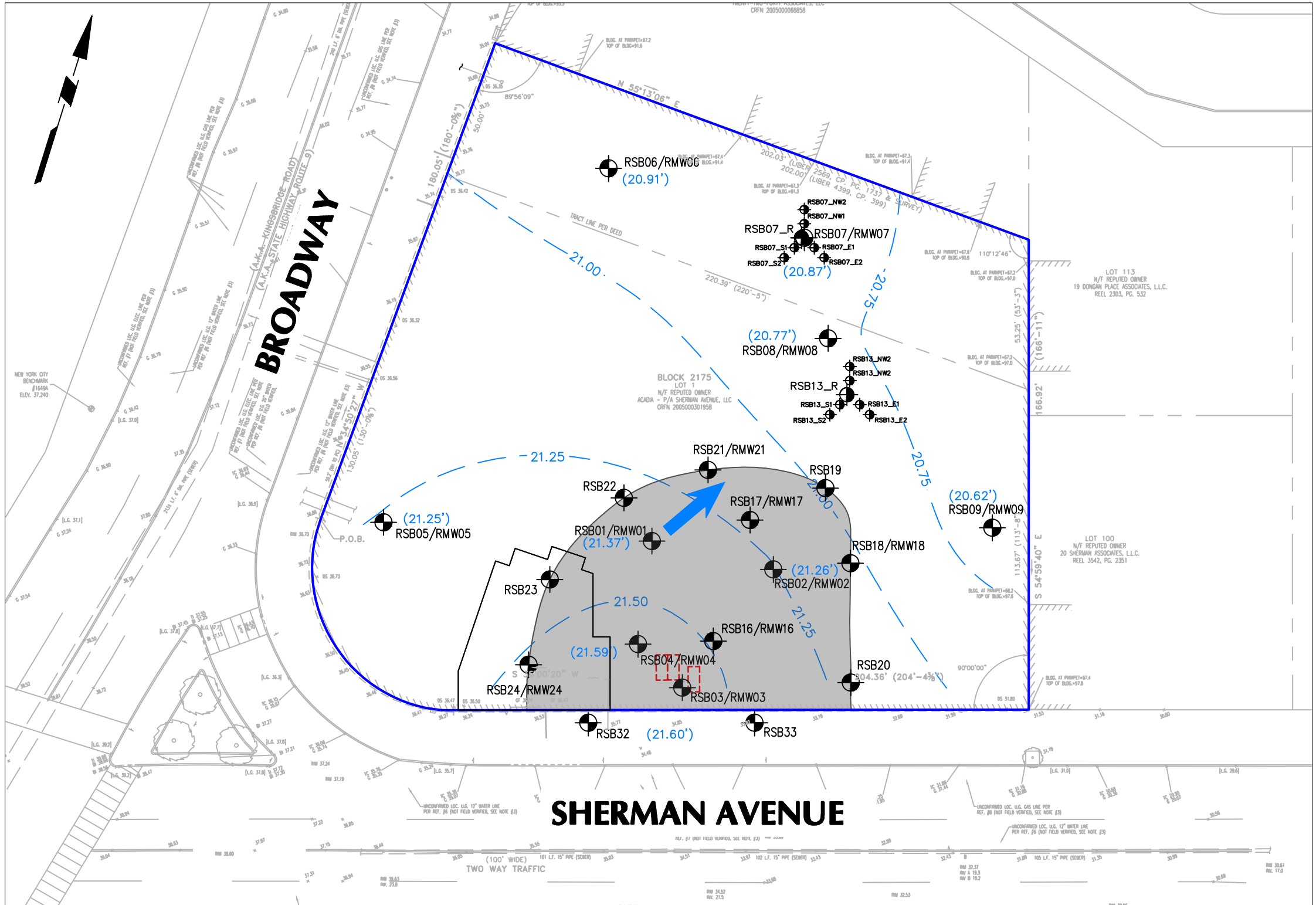
NOTES:

1. BASEMAP: BOUNDARY & TOPOGRAPHIC SURVEY, PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005.
2. ELEVATIONS ARE BASED UPON THE BOROUGH OF MANHATTAN DATUM, APPROXIMATELY 2.750 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK.
3. BORING LOCATIONS ARE APPROXIMATE.
4. ESI = ENVIRONMENTAL SITE INVESTIGATION
5. RI = REMEDIAL INVESTIGATION
6. AOC = AREA OF CONCERN
7. CNS = CNS MANAGEMENT CORP.
8. SVOC = SEMIVOLATILE ORGANIC COMPOUND



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 Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com	Project 4650 BROADWAY BLOCK No. 2175, LOT No. 1 NEW YORK NEW YORK	Figure Title AREAS OF CONCERN AND SAMPLE LOCATION MAP	Project No. 170505501 Date 10/3/2019 Drawn By JG Checked By JL	Figure No. 7 Sheet 7 of 11
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LEGEND:

- APPROXIMATE SITE BOUNDARY
- (21.25') MONITORING WELL LOCATION (GROUNDWATER ELEVATION)
- - - 21.25 - - - GROUNDWATER CONTOUR WITH ELEVATION
- ➔ INFERRED GROUNDWATER FLOW

NOTES:

1. BASEMAP: BOUNDARY & TOPOGRAPHIC SURVEY, PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005..
2. TOP OF WELL CASING ELEVATIONS WERE SURVEYED BY LANGAN ON APRIL 16, 2018.
3. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. ELEVATIONS WERE CALCULATED AS THE DIFFERENCE BETWEEN SURVEYED TOP OF PIPE ELEVATIONS AND DEPTH-TO-GROUNDWATER MEASUREMENTS.
5. SYNOPTIC WELL GAUGING EVENT WAS PERFORMED BY LANGAN ON MAY 09, 2018.



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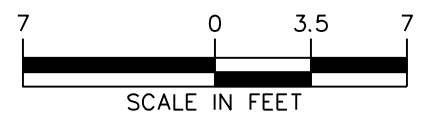
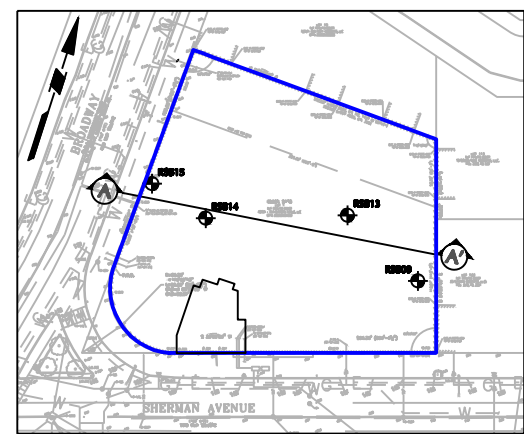
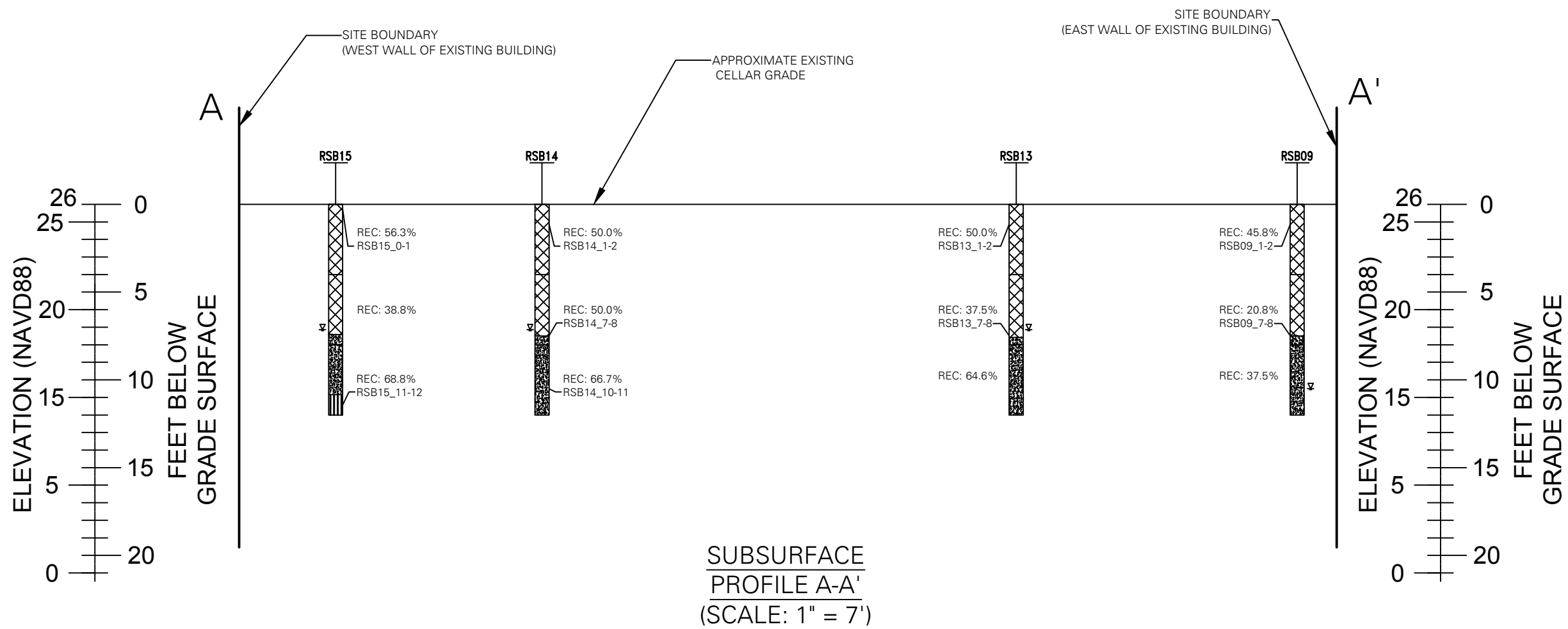
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Project
4650 BROADWAY
 BLOCK No. 2175, LOT No. 1
 NEW YORK NEW YORK

Figure Title
**GROUNDWATER
 ELEVATION
 CONTOUR MAP**

Project No.
 170505501
 Date
 05/10/2018
 Drawn By
 JFY
 Checked By
 BG

Figure No.
8
 Sheet 8 of 11



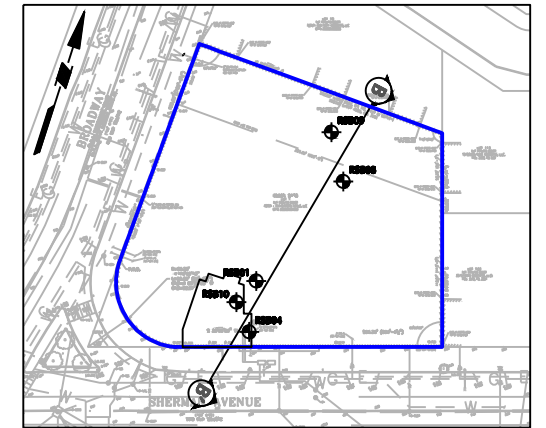
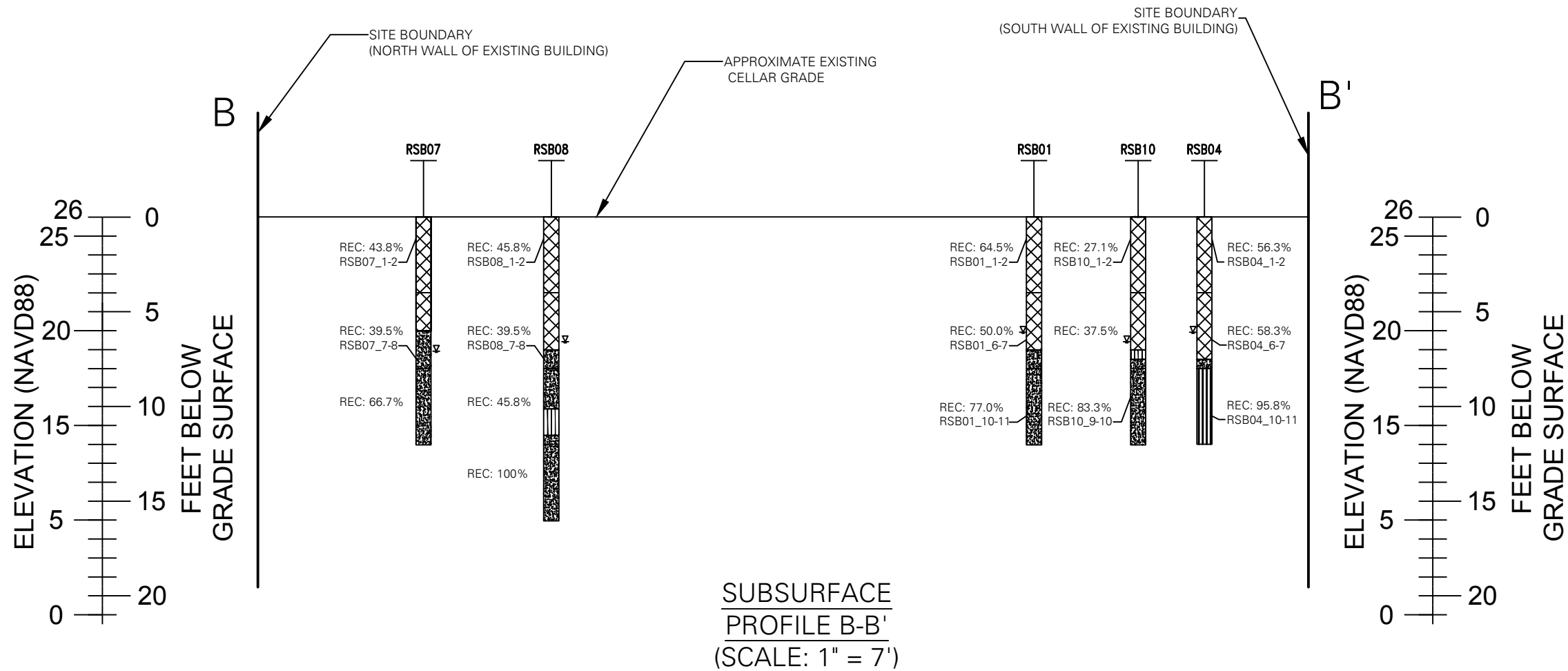
- LEGEND:**
- APPROXIMATE SITE BOUNDARY
 - RSB14** SOIL BORING LOCATION
 - HISTORIC FILL MATERIAL
 - SAND
 - SILT

- BORING KEY DIAGRAM AND NOTES**
- RSB09 — BORING NUMBER
- RSB09_1-2: GRAB SAMPLE_DEPTH INTERVAL OF SAMPLE COLLECTION
- REC: (LENGTH OF SOIL RETRIEVED) / (LENGTH OF MACROCORE SLEEVE)
- APPROXIMATE GROUNDWATER INTERFACE

- NOTES**
1. THE BASE MAP IS REFERENCED FROM THE BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005.
 2. BORING LOCATIONS ARE BASED ON FIELD MEASUREMENTS.
 3. BORINGS WERE ADVANCED FROM THE CELLAR LEVEL APPROXIMATELY 14 FEET BELOW SIDEWALK GRADE.
 4. SUBSURFACE STRATIGRAPHY INTERPRETED FROM RECOVERED SOIL SAMPLES. REFER TO BORING LOGS (APPENDIX D) FOR ADDITIONAL INFORMATION.
 5. MACROCORE SLEEVES WERE 4 FEET LONG,
 6. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

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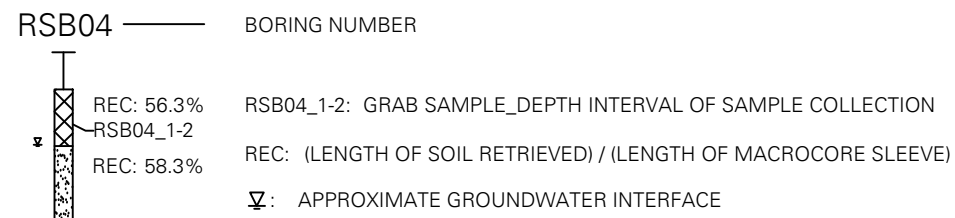
 Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com	Project 4650 BROADWAY BLOCK No. 2175, LOT No. 1 NEW YORK NEW YORK	Figure Title SUB-SURFACE PROFILE A-A'	Project No. 170505501 Date 05/10/2018 Drawn By JFY Checked By BG	Figure No. 9A Sheet 9 of 11
	© 2018 Langan			



LEGEND:

- APPROXIMATE SITE BOUNDARY
- SOIL BORING LOCATION
- HISTORIC FILL MATERIAL
- SAND
- SILT

BORING KEY DIAGRAM AND NOTES

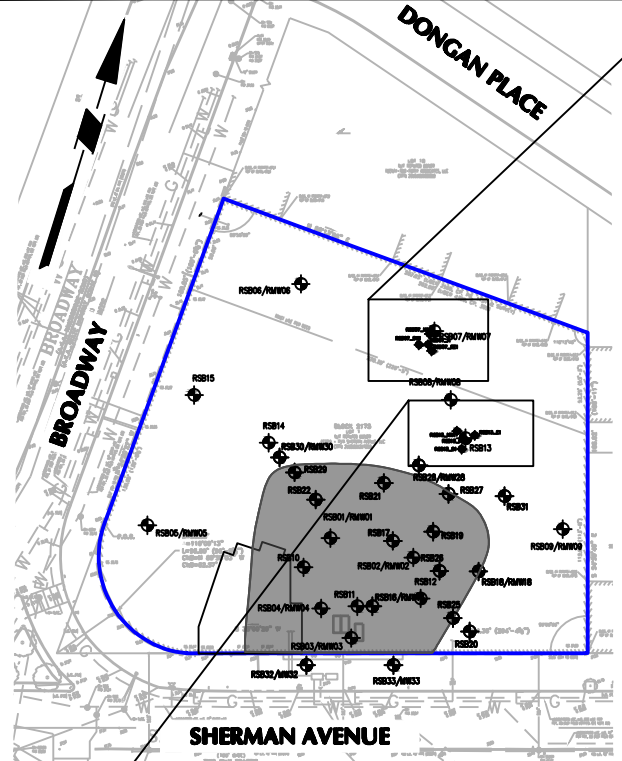


NOTES

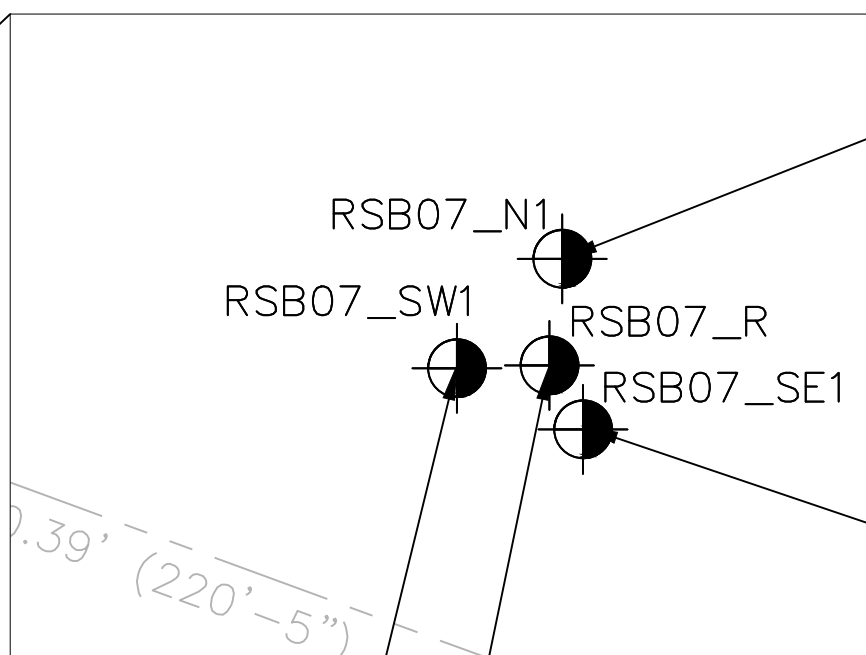
1. THE BASE MAP IS REFERENCED FROM THE BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005.
2. BORING LOCATIONS ARE BASED ON FIELD MEASUREMENTS.
3. BORINGS WERE ADVANCED FROM THE CELLAR LEVEL APPROXIMATELY 14 FEET BELOW SIDEWALK GRADE.
4. SUBSURFACE STRATIGRAPHY INTERPRETED FROM RECOVERED SOIL SAMPLES. REFER TO BORING LOGS (APPENDIX D) FOR ADDITIONAL INFORMATION.
5. MACROCORE SLEEVES WERE 4 FEET LONG,
6. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

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KEY MAP
(SCALE 1" = 100')



Sample Location	RSB07N1
Sample ID	RSB07_N1-7-8
Sample Depth (ft bgs)	7 to 8
Sample Date	7/26/2018
SVOCs (mg/kg)	
Total SVOCs	NE

Sample Location	RSB07SE1
Sample ID	RSB07_SE1-7-8
Sample Depth (ft bgs)	7 to 8
Sample Date	7/26/2018
SVOCs (mg/kg)	
Total SVOCs	NE

Sample Location	RSB07SW1
Sample ID	RSB07_SW1-7-8
Sample Depth (ft bgs)	7 to 8
Sample Date	7/26/2018
SVOCs (mg/kg)	
Total SVOCs	NE

Sample Location	RSB07R				
	RSB07_1-2	RSB07_7-8	RSB07R_5-7	RSB07R_7-8	RSB07R_8-10
Sample ID	1-2	7-8	5 to 7	7 to 8	8 to 10
Sample Depth (ft bgs)					
Sample Date	4/10/2018	4/10/2018	7/26/2018	7/26/2018	7/26/2018
SVOCs (mg/kg)					
Benzo(a)Anthracene	NE	2.7	NE	ND	ND
Benzo(a)Pyrene	NE	2.2	NE	ND	ND
Benzo(b)Fluoranthene	NE	3.2	NE	ND	ND
Benzo(k)Fluoranthene	ND	0.88	NE	ND	ND
Chrysene	NE	2.6	NE	ND	ND
Dibenz(a,h)Anthracene	ND	0.35	ND	ND	ND
Indeno(1,2,3-c,d)Pyrene	NE	1.7	NE	ND	ND

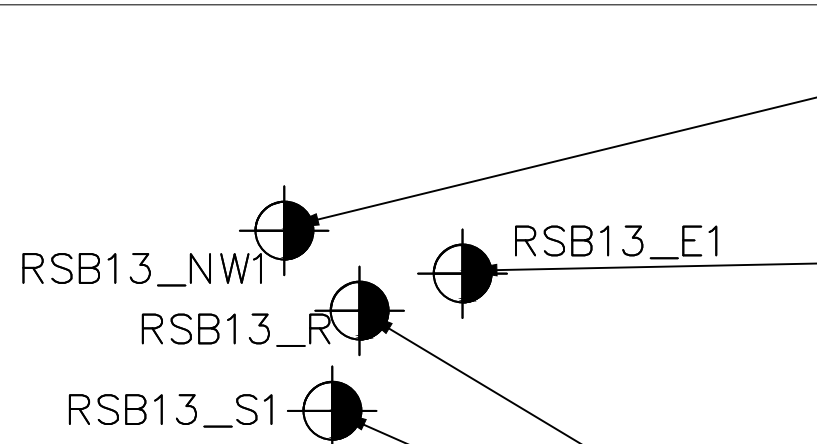
LEGEND:

- APPROXIMATE SITE BOUNDARY
- RSB10
RI SOIL BORING LOCATION
- RSB13_NW2
RI SVOC DELINEATION BORING LOCATION
- FORMER GASOLINE UST LOCATION (CNS, 2009)
- APPROXIMATE EXTENT OF SUB-CELLAR
- AOC 1: ON-SITE OPEN PETROLEUM SPILL

NOTES:

1. BASEMAP: BOUNDARY & TOPOGRAPHIC SURVEY, PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005.
2. ELEVATIONS ARE BASED UPON THE BOROUGH OF MANHATTAN DATUM, APPROXIMATELY 2.750 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK.
3. RI = REMEDIAL INVESTIGATION
4. BORINGS WERE ADVANCED FROM CELLAR GRADE, WHICH IS APPROXIMATELY 14 FEET BELOW SIDEWALK GRADE.
5. SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO TITLE 6 OF THE NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 375 UNRESTRICTED USE (UU) AND RESTRICTED USE RESTRICTED-RESIDENTIAL (RRU) SOIL CLEANUP OBJECTIVES (SCOs).
6. SOIL SAMPLES COLLECTED FROM BORINGS RSB07N2, RSB07SE2, AND RSB07SW2 WERE NOT ANALYZED BECAUSE SOIL SAMPLES FROM COLLECTED FROM BORINGS RSB07N1, RSB07SE1, AND RSB07SW1 DID NOT EXCEED UU SCOs.
7. SOIL SAMPLES COLLECTED FROM BORINGS RSB13NW2, RSB13S2, AND RSB13E2 WERE NOT ANALYZED BECAUSE SOIL SAMPLES FROM COLLECTED FROM BORINGS RSB013NW1, RSB13E1, AND RSB13S1 DID NOT EXCEED UU SCOs.
8. mg/kg = MILLIGRAMS PER KILOGRAM
9. SVOCs = SEMIVOLATILE ORGANIC COMPOUNDS
10. NE = NO EXCEEDANCES
11. ND = NOT DETECTED
12. UST = UNDERGROUND STORAGE TANK
13. FT BGS = FEET BELOW GRADE SURFACE

Analytes	NYSDEC	NYSDEC
	UU SCOs	RRU SCOs
SVOCs (mg/kg)		
Benzo(a)Anthracene	1	1
Benzo(a)Pyrene	1	1
Benzo(b)Fluoranthene	1	1
Benzo(k)Fluoranthene	0.8	3.9
Chrysene	1	3.9
Dibenz(a,h)Anthracene	0.33	0.33
Indeno(1,2,3-c,d)Pyrene	0.5	0.5

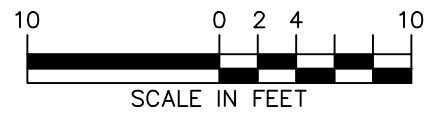


Sample Location	RSB13E1
Sample ID	RSB13_E1-7-8
Sample Depth (ft bgs)	7 to 8
Sample Date	7/26/2018
SVOCs (mg/kg)	
Total SVOCs	NE

Sample Location	RSB13NW1
Sample ID	RSB13_NW1-7-8
Sample Depth (ft bgs)	7 to 8
Sample Date	7/26/2018
SVOCs (mg/kg)	
Total SVOCs	NE

Sample Location	RSB13R			
	RSB13_1-2	RSB13_7-8	RSB13R_7-8	RSB13R_8-10
Sample ID	1-2	7-8	7 to 8	8 to 10
Sample Depth (ft bgs)				
Sample Date	4/10/2018	4/10/2018	7/26/2018	7/26/2018
SVOCs (mg/kg)				
Benzo(a)Anthracene	1.8	NE	ND	ND
Benzo(a)Pyrene	1.5	NE	ND	ND
Benzo(b)Fluoranthene	1.9	1.2	ND	ND
Chrysene	1.7	NE	ND	ND
Indeno(1,2,3-c,d)Pyrene	1.1	0.64	ND	ND

Sample Location	RSB13S1
Sample ID	RSB13_S1-7-8
Sample Depth (ft bgs)	7 to 8
Sample Date	7/26/2018
SVOCs (mg/kg)	
Total SVOCs	NE



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TABLES

Table 1
Previous Soil Sample Analytical Results Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC UU SCOs	NYSDEC RRU SCOs	SB01 3-4 L1808457-01 3/12/2018 3-4	SB02 6-7 L1808457-02 3/12/2018 6-7	SB03 1-2 L1808457-03 3/12/2018 1-2	SB04 0.5-1.5 L1808457-04 3/12/2018 0.5-1.5	SB05 1-2 L1808457-05 3/12/2018 1-2	SB06 1-2 L1808457-06 3/12/2018 1-2	SB07 2-3 L1808457-07 3/12/2018 2-3	SB08 2-3 L1808457-08 3/12/2018 2-3
Volatile Organic Compounds (VOCs) (mg/kg)										
1,2,3-Trichloropropane	~	~	0.005 U	11 J	0.0056 U	0.0069 U	0.0051 U	0.005 U	0.0055 U	0.0057 U
1,2,4,5-Tetramethylbenzene	~	~	0.002 U	52	0.0022 U	0.0028 U	0.002 U	0.002 U	0.0022 U	0.0023 U
1,2,4-Trimethylbenzene	3.6	52	0.00017 J	730	0.00034 J	0.00043 J	0.00011 J	0.00018 J	0.0028 U	0.0002 J
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0025 U	220	0.0001 J	0.0035 U	0.0025 U	0.0025 U	0.0028 U	0.0029 U
1,4-Diethyl Benzene	~	~	0.002 U	160	0.0022 U	0.0028 U	0.002 U	0.002 U	0.0022 U	0.0023 U
4-Ethyltoluene	~	~	0.002 U	530	0.00035 J	0.00032 J	0.002 U	0.00013 J	0.0022 U	0.00018 J
Acetone	0.05	100	0.005 UJ	35 U	0.0037 J	0.0069 U	0.0031 J	0.0017 J	0.0018 J	0.0034 J
Benzene	0.06	4.8	0.0005 U	3.5 U	0.0003 J	0.00014 J	0.00051 U	0.0005 U	0.00055 U	0.00057 U
Chloroform	0.37	49	0.00074 U	5.2 U	0.00084 U	0.00062 J	0.00076 U	0.00075 U	0.00083 U	0.00086 U
Cymene	~	~	0.0005 U	5.5	0.00056 U	0.00069 U	0.00051 U	0.0005 U	0.00055 U	0.00057 U
Ethylbenzene	1	41	0.0005 U	110	0.00044 J	0.00019 J	0.00051 U	0.0005 U	0.00055 U	0.00057 U
Isopropylbenzene (Cumene)	~	~	0.0005 U	24	0.00056 U	0.00069 U	0.00051 U	0.0005 U	0.00055 U	0.00057 U
M,P-Xylene	~	~	0.00025 J	980	0.0017 U	0.00083 J	0.001 U	0.00028 J	0.0011 U	0.00025 J
Naphthalene	12	100	0.0025 U	77	0.00009 J	0.0002 J	0.0025 U	0.0025 U	0.0028 U	0.0029 U
n-Butylbenzene	12	100	0.0005 U	21	0.00056 U	0.00069 U	0.00051 U	0.0005 U	0.00055 U	0.00057 U
n-Propylbenzene	3.9	100	0.0005 U	77	0.00056 U	0.00069 U	0.00051 U	0.0005 U	0.00055 U	0.00057 U
o-Xylene (1,2-Dimethylbenzene)	~	~	0.00099 U	200	0.00043 J	0.0014 U	0.001 U	0.001 U	0.0011 U	0.0011 U
Sec-Butylbenzene	11	100	0.0005 U	9.3	0.00056 U	0.00069 U	0.00051 U	0.0005 U	0.00055 U	0.00057 U
Toluene	0.7	100	0.00016 J	23	0.00092 U	0.001 U	0.00076 U	0.00075 U	0.00083 U	0.00086 U
Total Xylenes	0.26	100	0.00025 J	1200	0.0021 J	0.00083 J	0.001 U	0.00028 J	0.0011 U	0.00025 J
Semivolatile Organic Compounds (SVOCs) (mg/kg)										
2-Methylnaphthalene	~	~	0.23 U	14	0.22 U	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U
Acenaphthene	20	100	0.15 U	0.62 U	0.15 U	0.15 U	0.16 U	0.14 U	0.14 U	0.1 J
Anthracene	100	100	0.11 U	0.47 U	0.11 U	0.11 U	0.12 U	0.11 U	0.11 U	0.17
Benzo(a)Anthracene	1	1	0.11 U	0.47 U	0.11 U	0.046 J	0.047 J	0.13	0.034 J	0.36
Benzo(a)Pyrene	1	1	0.15 U	0.62 U	0.15 U	0.15 U	0.16 U	0.14	0.14 U	0.36
Benzo(b)Fluoranthene	1	1	0.11 U	0.47 U	0.11 U	0.057 J	0.062 J	0.17	0.044 J	0.43
Benzo(g,h,i)Perylene	100	100	0.15 U	0.62 U	0.15 U	0.031 J	0.034 J	0.089 J	0.024 J	0.22
Benzo(k)Fluoranthene	0.8	3.9	0.11 U	0.47 U	0.11 U	0.11 U	0.12 U	0.057 J	0.11 U	0.13
Chrysene	1	3.9	0.11 U	0.47 U	0.11 U	0.046 J	0.048 J	0.13	0.034 J	0.35
Dibenzo(a,h)Anthracene	0.33	0.33	0.11 U	0.47 U	0.11 U	0.11 U	0.12 U	0.022 J	0.11 U	0.048 J
Dibenzofuran	7	59	0.19 U	0.78 U	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.024 J
Fluoranthene	100	100	0.11 U	0.47 U	0.11 U	0.099 J	0.083 J	0.31	0.066 J	1
Fluorene	30	100	0.19 U	0.085 J	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.055 J
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.15 U	0.62 U	0.15 U	0.034 J	0.037 J	0.1 J	0.025 J	0.23
Phenanthrene	100	100	0.11 U	0.15 J	0.11 U	0.04 J	0.12 U	0.13	0.03 J	0.63
Pyrene	100	100	0.11 U	0.47 U	0.11 U	0.09 J	0.079 J	0.28	0.063 J	0.87
Polychlorinated Biphenyls (PCBs) (mg/kg)										
Total PCBs	~	~	ND	ND	ND	ND	ND	ND	ND	ND
Metals (mg/kg)										
Aluminum	~	~	7330	3530	8910	6060	9900	7780	6870	9160
Arsenic	13	16	1.5	0.675 J	0.692 J	1.84	2.59	2.87	1.85	2.21
Barium	350	400	23	11.5	19.4	36.3	47.4	44.6	26.2	50.3
Beryllium	7.2	72	0.26 J	0.141 J	0.248 J	0.232 J	0.396 J	0.317 J	0.27 J	0.402 J
Calcium	~	~	352	586	468	1090	2650	952	746	839
Chromium, Total	~	~	12.2	6.9	9.93	9.07	13.7	13.6	10.5	12.8
Cobalt	~	~	3.85	2.53	2.3	3.94	6.28	5.37	4.7	6.16
Copper	50	270	4	6.54	2.62	9.49	16.5	14	8.14	19.9
Iron	~	~	9410 J	5810 J	7000 J	9090 J	13100 J	13600 J	10400 J	12800 J
Lead	63	400	4.35 J	13.6	4.55	11.8	104	52.9	9.93	13.3
Magnesium	~	~	1610	1130	833	1710	2760	2080	1700	2620
Manganese	1600	2000	166	44.6	26.4	216	232	364	328	278
Mercury	0.18	0.81	0.03 J	0.07 U	0.02 J	0.03 J	0.08 J	0.06 J	0.02 J	0.02 J
Nickel	30	310	11.8	6.86	5.4	7.96	12.8	9.52	8.41	11.4
Potassium	~	~	477	381	294	617	1280	687	497	1220
Selenium	3.9	180	0.233 J	1.87 U	0.39 J	1.72 U	0.405 J	1.71 U	1.74 U	1.79 U
Sodium	~	~	210	341	142 J	499	143 J	252	352	847
Vanadium	~	~	14.3	6.64	9.86	11.8	18	16.6	13.4	19.4
Zinc	109	10000	21	11.7	21	25.9	64.3	58.3	19.7	43.2

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are bolded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade, which is about 14 feet below sidewalk grade.

QUALIFIERS:

- U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 2
Previous Groundwater Sample Analytical Results Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC TOGS SGVs	MW01_031218 L1808456-01 3/12/2018	MW02_031218 L1808456-02 3/12/2018	MW03_031218 L1808456-03 3/12/2018	MW04_031218 L1808456-04 3/12/2018				
Sample Date									
Volatile Organic Compounds (VOCs) (µg/L)									
1,2,4,5-Tetramethylbenzene	5	2	U	41	2	U	2	U	
1,2,4-Trimethylbenzene	5	0.75	J	1,300	2.5	U	2.5	U	
1,2-Dichloroethane	0.6	0.5	U	10	U	0.5	U	0.13	J
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5	U	390	2.5	U	2.5	U	
1,4-Diethyl Benzene	~	2	U	120	2	U	2	U	
4-Ethyltoluene	~	2	U	1,000	2	U	2	U	
Acetone	50	5	U	92	J	5	U	5	U
Chloroform	7	0.91	J	50	U	2.5	U	2.5	U
Ethylbenzene	5	2.5	U	330	2.5	U	2.5	U	
Isopropylbenzene (Cumene)	5	2.5	U	49	J	2.5	U	2.5	U
m,p-Xylene	5	2.3	J	2,000	2.5	U	1.7	J	
Naphthalene	10	2.5	U	72	2.5	U	2.5	U	
n-Propylbenzene	5	2.5	U	160	2.5	U	2.5	U	
o-Xylene (1,2-Dimethylbenzene)	5	2.5	U	530	2.5	U	2.5	U	
Toluene	5	2.5	U	190	2.5	U	2.5	U	
Total Xylenes	~	2.3	J	2,500	2.5	U	1.7	J	
Semi-Volatile Organic Compounds (SVOCs) (µg/L)									
2-Methylnaphthalene	~	0.1	U	34	0.1	U	0.1	U	
Acenaphthene	20	0.1	U	0.1	0.1	U	0.1	U	
Acenaphthylene	~	0.1	U	0.05	J	0.1	U	0.1	U
Fluorene	50	0.1	U	0.12	0.1	U	0.1	U	
Phenanthrene	50	0.1	U	0.17	0.05	J	0.1	U	
Polychlorinated Biphenyls (PCBs) (µg/L)									
Total PCBs	~	ND	ND	ND	ND	ND	ND	ND	
Dissolved Metals (µg/L)									
Arsenic	25	0.43	J	0.88	0.42	J	1.1		
Barium	1000	312.2		200	302.8		164.6		
Cadmium	5	0.07	J	0.2	U	0.06	J	0.2	U
Calcium	~	165,000	J	248,000	J	162,000	J	168,000	J
Chromium, Total	50	0.9	J	0.42	J	0.74	J	0.24	J
Cobalt	~	0.77		5.81		0.68		0.37	J
Copper	200	3.45		0.95	J	0.93	J	0.45	J
Iron	300	63.7		119		41.5	J	744	
Lead	25	1	U	2.85		1	U	1	U
Magnesium	35000	25,700		19,900		24,700		21,600	
Manganese	300	122.2	J	300.6	J	93.61	J	5,272	J
Nickel	100	1.49	J	4.07		1.32	J	1.12	J
Potassium	~	20,500	J	22,100	J	20,300	J	19,600	J
Selenium	10	6.64		5	U	7.32		5	U
Sodium	20000	1,470,000		768,000		1,480,000		648,000	

NOTES:

- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) and guidance values for drinking water (class GA) (collectively referred to as the standards and guidance values [SGVs]).
- Only analytical results with detections are shown in the table.
- Results exceeding NYSDEC TOGS SGVs are shaded and bolded.
- ~ = No regulatory limit has been established for this analyte.
- µg/L = micrograms per liter
- Groundwater samples were collected at cellar grade, which is about 14 feet below sidewalk grade.

QUALIFIERS:

- J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Table 3
Previous Soil Vapor Sample Analytical Results Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	SV01_031218	SV02_031218	SV03_031218	SV04_031218
Laboratory Sample ID	L1808458-01	L1808458-02	L1808458-03	L1808458-04
Sample Date	3/12/2018	3/12/2018	3/12/2018	3/12/2018
Volatile Organic Compounds (VOCs) ($\mu\text{g}/\text{m}^3$)				
1,1,1-Trichloroethane	2.73 U	1.09 U	2.73 U	3.52
1,2,4-Trimethylbenzene	19.7	16.6	18.2	22.1
1,3,5-Trimethylbenzene (Mesitylene)	5.95	9.83 U	5.26	6.1
1,3-Butadiene	3.03	4.42 U	1.87	1.11 U
2,2,4-Trimethylpentane	9.53	9.34 U	14.6	4.05
4-Ethyltoluene	5.9	9.83 U	6.54	6.34
Acetone	1340	141	361	508
Benzene	11.4	15.7	15.1	7.44
Carbon Disulfide	22.4	11.8	9.62	84.7
Chloroform	3.46	64.9	2.44 U	2.44 U
Chloromethane	4.27	4.13 U	1.03 U	1.03 U
Cyclohexane	8.64	24.2	3.3	1.72 U
Dichlorodifluoromethane	2.94	9.89 U	2.68	2.47 U
Ethanol	81.6	94.2 U	23.6 U	27.9
Ethylbenzene	11	8.69 U	5.52	9.47
Isopropanol	25.6 J	12.3 U	4.38 J	9.54 J
M,P-Xylene	45.2	26.8	24	36
Methyl Ethyl Ketone (2-Butanone)	32.7	14.7 U	12.4	18.6
n-Heptane	41.8	8.97	13.3	11.2
n-Hexane	52.5	12.2	11.7	5.5
o-Xylene (1,2-Dimethylbenzene)	16	12.4	10.9	14.4
Styrene	2.13 U	8.52 U	2.13 U	2.34
Tert-Butyl Methyl Ether	3.24	7.21 U	3.25	16.2
Tetrachloroethylene (PCE)	3.39 U	2.92	9.9	9.7
Toluene	27.2	13.2	23	14.5
Total VOCs	1774.06	350.69	556.52	817.6

NOTES:

1. $\mu\text{g}/\text{m}^3$ = micrograms per meter cubed
2. Total VOCs is the sum of detected VOCs.
3. Soil vapor samples were collected at cellar grade, which is about 14 feet below sidewalk grade.
4. Only analytes with detections are shown in the table.

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 4 - Sample Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No.: 170505501
BCP Site No. C231123

Sample Name	Boring Location	Sample Depth (feet bgs)	Date	Sample Rationale	Analyses
Soil Samples					
RSB01_1-2	RSB01	1 to 2	4/11/2018	Top of Fill	Part 375 VOCs, SVOCs, PCBs, Pesticides/Herbicides, and Metals (incl tri/hex chromium and total cyanide)
RSB01_6-7		6 to 7	4/11/2018	Groundwater Interface	
RSB01_10-11		10 to 11	4/11/2018	Greatest Observed Impacts	
RSB02_0-1	RSB02	0 to 1	4/11/2018	Top of Fill	
RSB02_6-7		6 to 7	4/11/2018	Greatest Observed Impacts	
RSB03_0-1	RSB03	0 to 1	4/11/2018	Top of Fill	
RSB03_7-8		7 to 8	4/11/2018	Greatest Observed Impacts	
RSB04_1-2	RSB04	1 to 2	4/9/2018	Top of Fill	
RSB04_6-7		6 to 7	4/9/2018	Groundwater Interface	
RSB04_10-11		10 to 11	4/9/2018	Greatest Observed Impacts	
RSB05_0-1	RSB05	0 to 1	4/10/2018	Top of Fill	
RSB05_6-7		6 to 7	4/10/2018	Groundwater Interface	
RSB06_1-2	RSB06	1 to 2	4/10/2018	Top of Fill	
RSB06_7-8		7 to 8	4/10/2018	Groundwater Interface	
RSB07_0-1	RSB07	0 to 1	4/10/2018	Top of Fill	
RSB07_7-8		7 to 8	4/10/2018	Groundwater Interface	
RSB08_1-2	RSB08	1 to 2	4/10/2018	Top of Fill	
RSB08_7-8		7 to 8	4/10/2018	Groundwater Interface	
RSB08_14-15		14 to 15	4/10/2018	Greatest Observed Impacts	
RSB09_1-2	RSB09	1 to 2	4/11/2018	Top of Fill	
RSB09_7-8		7 to 8	4/11/2018	Groundwater Interface	
RSB10_1-2	RSB10	1 to 2	4/9/2018	Top of Fill	
RSB10_9-10		9 to 10	4/9/2018	Greatest Observed Impacts	
RSB11_1-2	RSB11	1 to 2	4/9/2018	Top of Fill	
RSB11_5-6		5 to 6	4/9/2018	Groundwater Interface	
RSB11_8-9		8 to 9	4/9/2018	Greatest Observed Impacts	
RSB12_1-2	RSB12	1 to 2	4/9/2018	Top of Fill	
RSB12_5-6		5 to 6	4/9/2018	Groundwater Interface	
RSB12_7-8		7 to 8	4/9/2018	Greatest Observed Impacts	
RSB13_1-2	RSB13	1 to 2	4/9/2018	Top of Fill	
RSB13_7-8		7 to 8	4/9/2018	Groundwater Interface	
RSB14_1-2	RSB14	1 to 2	4/9/2018	Top of Fill	
RSB14_7-8		7 to 8	4/9/2018	Groundwater Interface	
RSB14_10-11		10 to 11	4/9/2018	Greatest Observed Impacts	
RSB15_0-1	RSB15	0 to 1	4/9/2018	Top of Fill	
RSB15_7-8		7 to 8	4/9/2018	Groundwater Interface	
RSB15_11-12		11 to 12	4/9/2018	Greatest Observed Impacts	
Soil - Petroleum Plume Delineation					
RSB16_6-8	RSB16	6 to 8	7/26/2018	Greatest Observed Impacts	Part 375/TCL VOCs and SVOCs
RSB16_13-14		13 to 14	7/27/2018	Interval Below Observed Impacts	
RSB17_7-8	RSB17	7 to 8	7/27/2018	Greatest Observed Impacts	
RSB17_8-9		8 to 9	7/27/2018	Interval Below Observed Impacts	
RSB18_4-6	RSB18	4 to 6	7/27/2018	Groundwater Interface	
RSB19_7-8	RSB19	7 to 8	7/27/2018	Greatest Observed Impacts	
RSB19_8-9		8 to 9	7/27/2018	Interval Below Observed Impacts	
RSB20_4-6	RSB20	4 to 6	7/27/2018	Groundwater Interface	
RSB21_8-9	RSB21	8 to 9	7/30/2018	Greatest Observed Impacts	
RSB21_11-12		11 to 12	7/30/2018	Interval Below Observed Impacts	
RSB22_8-9	RSB22	8 to 9	7/30/2018	Groundwater Interface	
RSB22_10-12		10 to 12	7/30/2018	Greatest Observed Impacts	
RSB25_4-5	RSB25	4 to 5	7/30/2018	Interval Below Observed Impacts	
RSB26_7-8	RSB26	7 to 8	7/31/2018	Groundwater Interface	
RSB26_10-11		10 to 11	7/31/2018	Greatest Observed Impacts	
RSB27_9-10	RSB27	9 to 10	7/31/2018	Interval Below Observed Impacts	
RSB27_11-12		11 to 12	7/30/2018	Groundwater Interface	
RSB28_6-7	RSB25	6 to 7	7/30/2018	Greatest Observed Impacts	
RSB29_8-9	RSB29	8 to 9	7/30/2018	Greatest Observed Impacts	
RSB29_10-11		10 to 11	7/31/2018	Interval Below Observed Impacts	
RSB30_5-6	RSB30	5 to 6	8/2/2018	Greatest Observed Impacts	
RSB31_6-7	RSB31	6 to 7	8/1/2018	Interval Below Observed Impacts	
RSB32_11-13	RSB32	11 to 13	9/4/2018	Greatest Observed Impacts	
RSB33_11-13	RSB33	11 to 13	9/4/2018	Interval Below Observed Impacts	

Notes:

- Soil samples for VOC analysis were collected using EnCore or Terra Core sampler kits.
- TCL = Target Compound List
- TAL = Target Analyte List
- VOCs = Volatile Organic Compounds
- SVOCs = Semivolatile Organic Compounds
- PCBs = Polychlorinated Biphenyls
- NA = Not Applicable
- Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples were collected for two soil samples (RSB01_6-7 and RSB10_9-10) and one groundwater sample (RMW06_040918).
- QA/QC = Quality Assurance/Quality Control
- PFAS = Per- and Polyfluoroalkyl substances (21-compound list)
- TO-15 = Compounds shown in EPA/625/R-96/010b table 1
- Part 375 = Compounds shown in Title 6 of the New York Codes, Rules and Regulations Part 375-6.8(b)
- bgs = Below Ground Surface
- Samples were collected at cellar grade, which is about 14 feet below sidewalk grade
- TOP Assay = Total Oxidizable Precursor Assay

Table 4 - Sample Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No.: 170505501
BCP Site No. C231123

Sample Name	Boring Location	Sample Depth (feet bgs)	Date	Sample Rationale	Analyses
Soil - SVOC Delineation					
RSB07_R_5-7	RSB07_R	5 to 7	7/26/2018	Delineate SVOC-impacted soil horizontally and vertically	Part 375/TCL SVOCs
RSB07_R_7-8		7 to 8	7/26/2018		
RSB07_R_8-10		8 to 10	7/26/2018		
RSB07_N1_7-8	RSB07_N1	7 to 8	7/26/2018		
RSB07_SE1_7-8	RSB07_SE1	7 to 8	7/26/2018		
RSB07_SW1_7-8	RSB07_SW1	7 to 8	7/26/2018		
RSB13_R_7-8	RSB13_R	7 to 8	7/26/2018		
RSB13_R_8-10		8 to 10	7/26/2018		
RSB13_NW1_7-8	RSB13_NW1	7 to 8	7/26/2018		
RSB13_E1_7-8	RSB13_E1	7 to 8	7/26/2018		
RSB13_S1_7-8	RSB13_S1	7 to 8	7/26/2018		
Soil - Per- and Poly-fluoroalkyl Substances and 1,4-Dioxane					
RSB09A_6-7	RSB09A	6 to 7	8/26/2019	Groundwater Interface	PFAS via TOP Assay (21-compound list), 1,4-Dioxane
RSB03A_0-1	RSB03A	0 to 1	8/26/2019	Top of Fill	PFAS (21-compound list) and 1,4-Dioxane
RSB03A_5-6		5 to 6	8/26/2019	Groundwater Interface	
RSB05A_0-1	RSB05A	0 to 1	8/26/2019	Top of Fill	
RSB05A_5-6		5 to 6	8/26/2019	Groundwater Interface	
RSB06A_1-2	RSB06A	1 to 2	8/26/2019	Top of Fill	
RSB06A_6-7		6 to 7	8/26/2019	Groundwater Interface	
RSB07A_2-3	RSB07A	2 to 3	8/26/2019	Top of Fill	
RSB07A_5-6		5 to 6	8/26/2019	Groundwater Interface	
RSB08A_0-1	RSB08A	0 to 1	8/26/2019	Top of Fill	
RSB08A_7-8		7 to 8	8/26/2019	Groundwater Interface	
RSB09A_1-2	RSB09A	1 to 2	8/26/2019	Top of Fill	
RSB14A_2-3	RSB14A	2 to 3	8/26/2019	Top of Fill	
RSB14A_5-6		5 to 6	8/26/2019	Groundwater Interface	
RSB15A_3-4	RSB15A	3 to 4	8/26/2019	Top of Fill	
RSB15A_5-6		5 to 6	8/26/2019	Groundwater Interface	
Soil QA/QC Samples					
RSBDUP01_040918	RSB10	1 to 2	4/9/2018	QA/QC	Part 375 VOCs, SVOCs, PCBs, Pesticides/Herbicides, and Metals (incl tri/hex chromium and total cyanide)
RSBDUP02_041118	RSB01	1 to 2	4/11/2018		
RSBDUP03_072718	RSB15	13 to 14	7/27/2018		
RSBDUP04_072618	RSB13_S1	7 to 8	7/26/2018		
DUP01_082619	RSB09A	1 to 2	8/26/2019		PFAS (21-compound list) and 1,4-Dioxane
FB01_082619	NA	NA	8/26/2019		
RSFB01_041018	NA	NA	4/10/2018		Part 375 VOCs, SVOCs, PCBs, Pesticides/Herbicides, and Metals (incl tri/hex chromium and total cyanide)
RSFB02_041118	NA	NA	4/11/2018		
RSBFB03_072718	NA	NA	7/27/2018		Part 375 VOCs and SVOCs
RSBFB04_072618	NA	NA	7/26/2018		
RSBFB05_073018	NA	NA	7/30/2018		
RSTB01_040918	NA	NA	4/9/2018		
RSTB02_041018	NA	NA	4/10/2018		
RSBTB03_041118	NA	NA	4/11/2018		
RSBTB04_072618	NA	NA	7/26/2018		
RSBTB05_072718	NA	NA	7/27/2018		
RSBTB06_073018	NA	NA	7/30/2018		
RSBTB07_073118	NA	NA	7/31/2018		
RSBTB08_080118	NA	NA	8/1/2018		
RSBTB09_080218	NA	NA	8/2/2018		
RGWTB01_090418	NA	NA	9/4/2018		

Notes:

- Soil samples for VOC analysis were collected using EnCore or Terra Core sampler kits.
- TCL = Target Compound List
- TAL = Target Analyte List
- VOCs = Volatile Organic Compounds
- SVOCs = Semivolatile Organic Compounds
- PCBs = Polychlorinated Biphenyls
- NA = Not Applicable
- Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples were collected for two soil samples (RSB01_6-7 and RSB10_9-10) and one groundwater sample (RMW06_040918).
- QA/QC = Quality Assurance/Quality Control
- PFAS = Per- and Polyfluoroalkyl substances (21-compound list)
- TO-15 = Compounds shown in EPA/625/R-96/010b table 1
- Part 375 = Compounds shown in Title 6 of the New York Codes, Rules and Regulations Part 375-6.8(b)
- bgs = Below Ground Surface
- Samples were collected at cellar grade, which is about 14 feet below sidewalk grade
- TOP Assay = Total Oxidizable Precursor Assay

Table 4 - Sample Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No.: 170505501
BCP Site No. C231123

Sample Name	Boring Location	Sample Depth (feet bgs)	Date	Sample Rationale	Analyses
Groundwater Samples					
RMW01_041818	RMW01	5 to 15	4/18/2018	Evaluate Groundwater Quality	TCL VOCs and SVOCs, PCBs, TAL Metals (total and dissolved, including tri/hex chromium and total cyanide), Pesticides/Herbicides, 1,4-dioxane, and PFCs
RMW02_041818	RMW02	5 to 15	4/18/2018		
RMW03_041818	RMW03	5 to 15	4/18/2018		
RMW04_041818	RMW04	7 to 17	4/18/2018		
RMW05_041918	RMW05	5 to 15	4/19/2018		
RMW06_041918	RMW06	5 to 15	4/19/2018		
RMW07_041918	RMW07	5 to 15	4/19/2018		
RMW08_041918	RMW08	6 to 16	4/19/2018		
RMW09_041918	RMW09	5 to 15	4/19/2018		
RMW16_080718	RMW16	3 to 13	8/7/2018	Delineate Petroleum Plume	TCL VOCs and SVOCs
RMW18_080718	RMW18	3 to 13	8/7/2018		
RMW28_080718	RMW28	4 to 14	8/7/2018		
RMW30_080718	RMW30	4 to 14	8/7/2018		
MW32_091318	MW32	8 to 18	9/13/2018		
MW33_091318	MW33	8 to 18	9/13/2018		
Groundwater QA/QC Samples					
RGWDUP01_041818	RMW02	5 to 15	4/18/2018	QA/QC	TCL VOCs and SVOCs, PCBs, TAL Metals (total and dissolved, including tri/hex chromium and total cyanide), Pesticides/Herbicides, 1,4-dioxane, and PFCs
RGWDUP02_080718	RMW18	3 to 13	8/7/2018		
RGWFB01_041818	NA	NA	4/18/2018		TCL VOCs and SVOCs
RGWFB01_080718	NA	NA	8/7/2018		
RGWTB01_041818	NA	NA	4/18/2018		TCL VOCs
RGWTB01_041918	NA	NA	4/19/2018		
RGWTB01_080718	NA	NA	8/7/2018		
RGWTB03_091218	NA	NA	9/12/2018		
Soil Vapor Samples					
RSV01_040918	RSV01	2.5	4/9/2018	Two Feet Above Groundwater Table	EPA Method TO-15 VOCs
RSV02_041018	RSV02	3.0	4/10/2018		
RSV03_041018	RSV03	3.0	4/10/2018		
RSV04_041118	RSV04	3.0	4/11/2018		
RSV05_041118	RSV05	2.5	4/9/2018		
RSV06_041118	RSV06	3.0	4/11/2018		
RSV07_041118	RSV07	3.0	4/11/2018		
RSV08_041118	RSV08	3.0	4/11/2018		
RAA01_040918	RAA01	NA	4/9/2018	Indoor Air	

Notes:

- Soil samples for VOC analysis were collected using EnCore or Terra Core sampler kits.
- TCL = Target Compound List
- TAL = Target Analyte List
- VOCs = Volatile Organic Compounds
- SVOCs = Semivolatile Organic Compounds
- PCBs = Polychlorinated Biphenyls
- NA = Not Applicable
- Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples were collected for two soil samples (RSB01_6-7 and RSB10_9-10) and one groundwater sample (RMW06_040918).
- QA/QC = Quality Assurance/Quality Control
- PFAS = Per- and Polyfluoroalkyl substances (21-compound list)
- TO-15 = Compounds shown in EPA/625/R-96/010b table 1
- Part 375 = Compounds shown in Title 6 of the New York Codes, Rules and Regulations Part 375-6.8(b)
- bgs = Below Ground Surface
- Samples were collected at cellar grade, which is about 14 feet below sidewalk grade
- TOP Assay = Total Oxidizable Precursor Assay

Table 5 - Well Construction and Groundwater Elevation Data Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No.: 170505501
BCP Site No. C231123

Well ID	Top of Pipe Elevation	Installation Date	Screened Interval (feet below grade surface)	Depth of Boring (feet below grade surface)	Depth to Groundwater (feet below grade surface)	Groundwater Elevation
RMW01	25.67	4/11/2018	5-15	15	4.3	21.37
RMW02	25.76	4/11/2018	5-15	15	4.5	21.26
RMW03	25.7	4/11/2018	5-15	15	4.1	21.6
RMW04	25.69	4/9/2018	2-12	12	4.1	21.59
RMW05	25.75	4/10/2018	5-15	15	4.5	21.25
RMW06	25.61	4/10/2018	5-15	15	4.7	20.91
RMW07	25.57	4/10/2018	5-15	15	4.7	20.87
RMW08	25.67	4/10/2018	6-16	16	4.9	20.77
RMW09	25.42	4/11/2018	5-15	15	4.8	20.62
RMW16	NS	7/27/2018	3-13	15	4.54	NS
RMW18	NS	7/30/2018	3-13	9	4.8	NS
RMW28	NS	7/31/2018	4-14	12	5.15	NS
RMW30	NS	8/2/2018	4-14	14	4.8	NS
MW32	NS	9/4/2018	8-18	28	15.7	NS
MW33	NS	9/4/2018	8-18	20	13.97	NS

Notes:

1. bgs = below grade surface
2. Elevations refer to the North American Vertical Datum of 1988 (NAVD88).
3. Monitoring wells RMW01 through RMW09 were surveyed by Langan on April 16, 2018.
4. Monitoring wells RMW01 through RMW09 were gauged on May 9, 2018.
5. Depth to groundwater measurements for monitoring wells RMW16, RMW18, RMW28, RMW30, MW32, and MW33, were collected at the time of sampling.
6. Monitoring wells RMW01 through RMW09, RMW16, RMW18, RMW28, and RMW30 were installed in at cellar level, which is about 14 feet below sidewalk grade. Monitoring wells MW32 and MW33 were installed at sidewalk grade.
7. NS = Not surveyed

Table 6
Soil Sample Analytical Results Summary - VOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC Part	NYSDEC Part	RSB01_1-2	RSBDUP02_041118	RSB01_6-7	RSB01_10-11	RSB02_0-1	RSB02_6-7	RSB03_0-1	RSB03_7-8	RSB04_1-2	RSB04_6-7	RSB04_10-11
Laboratory ID	375 UU SCOs	375 RRU SCOs	L1812618-01	L1812618-10	L1812618-02	L1812618-03	L1812618-04	L1812618-05	L1812618-06	L1812618-07	L1812210-02	L1812210-01	L1812210-03
Sample Date			4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/9/2018	4/9/2018	4/9/2018
Sample Depth (feet bgs)			1-2	1-2	6-7	10-11	0-1	6-7	0-1	7-8	1-2	6-7	10-11
Volatile Organic Compounds (mg/kg)													
1,2,3-Trichloropropane	~	~	0.013 U	0.018 U	0.11 J	0.014 U	0.012 U	0.012 U	0.016 U	3.8 U	0.014 U	0.7 U	0.012 U
1,2,4,5-Tetramethylbenzene	~	~	0.0052 U	0.0071 U	0.66	0.0076	0.0048 U	0.0028 J	0.00058 J	2.9	0.00059 J	0.055 J	0.0016 J
1,2,4-Trimethylbenzene	3.6	52	0.0017 J	0.0017 J	6.4	0.084	0.0059 U	0.049	0.0048 J	3.4	0.00063 J	0.14 J	0.00083 J
1,2-Dichlorobenzene	1.1	100	0.0064 U	0.0089 U	0.36 U	0.007 U	0.0059 U	0.006 U	0.0081 U	1.9 U	0.0068 U	0.35 U	0.0058 U
1,2-Dichloroethane	0.02	3.1	0.0013 U	0.0018 U	0.073 U	0.0014 U	0.0012 U	0.0012 U	0.0016 U	0.38 U	0.0014 U	0.07 U	0.0012 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.00085 J	0.00056 J	2.2	0.03	0.0059 U	0.03	0.0017 J	1.8 J	0.00025 J	0.067 J	0.00045 J
1,4-Diethyl Benzene	~	~	0.0052 U	0.0071 U	2.4	0.026	0.0048 U	0.01	0.0065 U	15	0.0054 U	0.28 U	0.0046 U
4-Ethyltoluene	~	~	0.002 J	0.0012 J	4.8	0.061	0.0048 U	0.044	0.0024 J	0.41 J	0.0054 U	0.053 J	0.0046 U
Acetone	0.05	100	0.0075 J	0.026 J	0.73 U	0.013 J	0.0097 J	0.019 J	0.016 U	3.8 U	0.0058 J	0.7 UJ	0.013 J
Benzene	0.06	4.8	0.0013 U	0.0018 U	0.073 U	0.0014 U	0.0012 U	0.0012 U	0.0016 U	0.38 U	0.0014 U	0.07 U	0.0012 U
Bromomethane	~	~	0.0026 U	0.0036 U	0.15 U	0.0028 U	0.0024 U	0.0024 U	0.0032 U	0.26 J	0.0027 UJ	0.14 U	0.0023 U
Carbon Disulfide	~	~	0.013 U	0.018 U	0.73 U	0.014 U	0.012 U	0.012 U	0.016 U	3.8 U	0.014 U	0.7 U	0.012 U
Chloroform	0.37	49	0.0019 U	0.0027 U	0.11 U	0.0021 U	0.0018 U	0.0018 U	0.0024 U	0.57 U	0.002 U	0.1 U	0.0017 U
Cymene	~	~	0.0013 U	0.0018 U	0.073 U	0.00089 J	0.0012 U	0.00053 J	0.0016 U	0.66	0.0014 U	0.07 U	0.0012 U
Ethylbenzene	1	41	0.00095 J	0.00036 J	1	0.016	0.0012 U	0.022	0.0016 U	0.38 U	0.0014 U	0.014 J	0.0012 U
Isopropylbenzene (Cumene)	~	~	0.0013 U	0.0018 U	0.25	0.0038	0.0012 U	0.0044	0.0016 U	0.13 J	0.0014 U	0.07 U	0.0012 U
M,P-Xylene	~	~	0.0056	0.0018 J	7.4	0.1	0.0024 U	0.064	0.00074 J	0.76 U	0.0027 U	0.048 J	0.0023 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.013 U	0.018 U	0.73 U	0.014 U	0.012 U	0.012 U	0.016 U	3.8 U	0.014 U	0.7 U	0.012 UJ
Methylene Chloride	0.05	100	0.013 U	0.018 U	0.73 U	0.014 U	0.012 U	0.012 U	0.016 U	3.8 U	0.014 U	0.7 U	0.012 U
Naphthalene	12	100	0.0064 U	0.0089 U	0.54	0.0071	0.0059 U	0.018	0.00065 J	1.9 U	0.0002 J	0.034 J	0.00017 J
n-Butylbenzene	12	100	0.0013 U	0.0018 U	0.26	0.0027	0.0012 U	0.00061 J	0.0016 U	1.8	0.0014 U	0.022 J	0.00028 J
n-Propylbenzene	3.9	100	0.00035 J	0.0018 U	0.79	0.01	0.0012 U	0.0084	0.0016 U	0.56	0.0014 U	0.026 J	0.0012 U
o-Xylene (1,2-Dimethylbenzene)	~	~	0.0015 J	0.00062 J	2	0.031	0.0024 U	0.0019 J	0.0032 U	0.76 U	0.0027 U	0.027 J	0.0023 U
Sec-Butylbenzene	11	100	0.0013 U	0.0018 U	0.13	0.0016	0.0012 U	0.0012 U	0.0016 U	1.3	0.0014 U	0.017 J	0.00036 J
T-Butylbenzene	5.9	100	0.0064 U	0.0089 U	0.36 U	0.007 U	0.0059 U	0.006 U	0.0081 U	1.9 U	0.0068 U	0.35 U	0.0058 U
Toluene	0.7	100	0.00042 J	0.00056 J	0.11 U	0.00072 J	0.0018 U	0.00036 J	0.0024 U	0.57 U	0.002 U	0.021 J	0.00023 J
Total Xylenes	0.26	100	0.0071 J	0.0024 J	9.4	0.13	0.0024 U	0.066 J	0.00074 J	0.76 U	0.0027 U	0.075 J	0.0023 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are bolded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- All soil samples, except RSB32_11-13 and RSB33_11-13, were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Soil samples RSB32_11-13 and RSB33_11-13 were collected at sidewalk grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP03_072718 is a duplicate sample of RSB16_13-14

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 6
Soil Sample Analytical Results Summary - VOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC Part	NYSDEC Part	RSB05_0-1	RSB05_6-7	RSB06_1-2	RSB06_7-8	RSB07_1-2	RSB07_7-8	RSB08_1-2	RSB08_7-8	RSB08_14-15	RSB09_1-2	RSB09_7-8
Laboratory ID	375 UU SCOs	375 RRU SCOs	L1812435-01	L1812435-02	L1812435-03	L1812435-04	L1812435-05	L1812435-06	L1812435-07	L1812435-08	L1812435-09	L1812618-08	L1812618-09
Sample Date			4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/11/2018	4/11/2018
Sample Depth (feet bgs)			0-1	6-7	1-2	7-8	1-2	7-8	1-2	7-8	14-15	1-2	7-8
Volatile Organic Compounds (mg/kg)													
1,2,3-Trichloropropane	~	~	0.014 U	0.013 U	0.013 U	0.015 U	0.018 U	0.016 U	0.028 U	0.027 U	0.022 U	0.014 U	0.011 U
1,2,4,5-Tetramethylbenzene	~	~	0.0056 U	0.0051 U	0.0051 U	0.0061 U	0.0071 U	0.0065 U	0.011 U	0.011 U	0.0089 U	0.0054 U	0.0044 U
1,2,4-Trimethylbenzene	3.6	52	0.007 U	0.0064 U	0.0064 U	0.0076 U	0.0089 U	0.0081 U	0.014 U	0.014 U	0.011 U	0.0068 U	0.0055 U
1,2-Dichlorobenzene	1.1	100	0.007 U	0.0064 U	0.0064 U	0.0076 U	0.0089 U	0.0081 U	0.014 U	0.014 U	0.011 U	0.0068 U	0.0055 U
1,2-Dichloroethane	0.02	3.1	0.0014 U	0.0013 U	0.0013 U	0.0015 U	0.0018 U	0.0016 U	0.0028 U	0.0027 U	0.0022 U	0.0014 U	0.0011 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.007 U	0.0064 U	0.0064 U	0.0076 U	0.0089 U	0.0081 U	0.014 U	0.014 U	0.011 U	0.0068 U	0.0055 U
1,4-Diethyl Benzene	~	~	0.0056 U	0.0051 U	0.0051 U	0.0061 U	0.0071 U	0.0065 U	0.011 U	0.011 U	0.0089 U	0.0054 U	0.0044 U
4-Ethyltoluene	~	~	0.0056 U	0.0051 U	0.0051 U	0.0061 U	0.0071 U	0.0065 U	0.011 U	0.011 U	0.0089 U	0.0054 U	0.0044 U
Acetone	0.05	100	0.014 UJ	0.036 J	0.0052 J	0.0089 J	0.018 UJ	0.034 J	0.028 UJ	0.027 UJ	0.06 J	0.0062 J	0.0072 J
Benzene	0.06	4.8	0.0014 U	0.0013 U	0.0013 U	0.0015 U	0.0018 U	0.0016 U	0.0028 U	0.0027 U	0.0022 U	0.0014 U	0.0011 U
Bromomethane	~	~	0.0028 UJ	0.0025 UJ	0.0026 UJ	0.003 UJ	0.0035 UJ	0.0032 UJ	0.0055 UJ	0.0054 UJ	0.0044 UJ	0.0027 U	0.0022 U
Carbon Disulfide	~	~	0.014 U	0.013 U	0.013 U	0.015 U	0.018 U	0.016 U	0.028 U	0.027 U	0.0027 J	0.014 U	0.011 U
Chloroform	0.37	49	0.0021 U	0.0019 U	0.0019 U	0.0023 U	0.0027 U	0.0024 U	0.0042 U	0.004 U	0.0033 U	0.002 U	0.0016 U
Cymene	~	~	0.0014 U	0.0013 U	0.0013 U	0.0015 U	0.0018 U	0.0016 U	0.0028 U	0.0027 U	0.0022 U	0.0014 U	0.0011 U
Ethylbenzene	1	41	0.0014 U	0.0013 U	0.0013 U	0.0015 U	0.0018 U	0.0016 U	0.0028 U	0.0027 U	0.0022 U	0.0014 U	0.0011 U
Isopropylbenzene (Cumene)	~	~	0.0014 U	0.0013 U	0.0013 U	0.0015 U	0.0018 U	0.0016 U	0.0028 U	0.0027 U	0.0022 U	0.0014 U	0.0011 U
M,P-Xylene	~	~	0.0028 U	0.0025 U	0.0026 U	0.003 U	0.0035 U	0.0032 U	0.0055 U	0.0054 U	0.0044 U	0.0027 U	0.0022 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.014 U	0.013 U	0.013 U	0.015 U	0.018 U	0.016 U	0.028 U	0.027 U	0.0088 J	0.014 U	0.011 U
Methylene Chloride	0.05	100	0.014 U	0.013 U	0.013 U	0.015 U	0.018 U	0.016 U	0.028 U	0.027 U	0.022 U	0.014 U	0.011 U
Naphthalene	12	100	0.007 U	0.0064 U	0.0064 U	0.0076 U	0.0089 U	0.0081 U	0.014 U	0.014 U	0.011 U	0.0068 U	0.0055 U
n-Butylbenzene	12	100	0.0014 U	0.0013 U	0.0013 U	0.0015 U	0.0018 U	0.0016 U	0.0028 U	0.0027 U	0.0022 U	0.0014 U	0.0011 U
n-Propylbenzene	3.9	100	0.0014 U	0.0013 U	0.0013 U	0.0015 U	0.0018 U	0.0016 U	0.0028 U	0.0027 U	0.0022 U	0.0014 U	0.0011 U
o-Xylene (1,2-Dimethylbenzene)	~	~	0.0028 U	0.0025 U	0.0026 U	0.003 U	0.0035 U	0.0032 U	0.0055 U	0.0054 U	0.0044 U	0.0027 U	0.0022 U
Sec-Butylbenzene	11	100	0.0014 U	0.0013 U	0.0013 U	0.0015 U	0.0018 U	0.0016 U	0.0028 U	0.0027 U	0.0022 U	0.0014 U	0.0011 U
T-Butylbenzene	5.9	100	0.007 U	0.0064 U	0.0064 U	0.0076 U	0.0089 U	0.0081 U	0.014 U	0.014 U	0.011 U	0.0068 U	0.0055 U
Toluene	0.7	100	0.0021 U	0.0019 U	0.0019 U	0.0023 U	0.0027 U	0.0024 U	0.0042 U	0.004 U	0.0033 U	0.002 U	0.0016 U
Total Xylenes	0.26	100	0.0028 U	0.0025 U	0.0026 U	0.003 U	0.0035 U	0.0032 U	0.0055 U	0.0054 U	0.0044 U	0.0027 U	0.0022 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are bolded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- All soil samples, except RSB32_11-13 and RSB33_11-13, were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Soil samples RSB32_11-13 and RSB33_11-13 were collected at sidewalk grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP03_072718 is a duplicate sample of RSB16_13-14

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 6
Soil Sample Analytical Results Summary - VOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC Part	NYSDEC Part	RSB10_1-2	RSBDUP01_040918	RSB10_9-10	RSB11_1-2	RSB11_5-6	RSB11_8-9	RSB12_1-2	RSB12_5-6	RSB12_7-8	RSB13_1-2	RSB13_7-8
Laboratory ID	375 UU SCOs	375 RRU SCOs	L1812210-04	L1812210-12	L1812210-05	L1812210-08	L1812210-07	L1812210-06	L1812210-09	L1812210-11	L1812210-10	L1812435-10	L1812435-11
Sample Date			4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/10/2018	4/10/2018
Sample Depth (feet bgs)			1-2	1-2	9-10	1-2	5-6	8-9	1-2	5-6	7-8	1-2	7-8
Volatile Organic Compounds (mg/kg)													
1,2,3-Trichloropropane	~	~	0.011 U	0.014 U	3.7 U	0.014 U	0.79 U	36 U	0.012 U	0.011 U	0.013 U	0.015 U	0.014 U
1,2,4,5-Tetramethylbenzene	~	~	0.0046 U	0.0056 U	2.2 U	0.0054 U	0.32 U	52 U	0.00029 J	0.0049 U	0.0081 U	0.0061 U	0.0054 U
1,2,4-Trimethylbenzene	3.6	52	0.00082 J	0.00054 J	28	0.0013 J	0.029 J	530	0.0021 J	0.026 U	0.043 U	0.0076 U	0.0068 U
1,2-Dichlorobenzene	1.1	100	0.0057 U	0.007 U	1.9 U	0.0068 U	0.4 U	18 U	0.0059 U	0.0054 U	0.0064 U	0.0076 U	0.0068 U
1,2-Dichloroethane	0.02	3.1	0.0011 U	0.0014 U	0.37 U	0.0014 U	0.079 U	3.6 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0014 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.00028 J	0.007 U	10	0.0004 J	0.4 U	160	0.00057 J	0.02 U	0.033 U	0.0076 U	0.0068 U
1,4-Diethyl Benzene	~	~	0.0046 U	0.0056 U	7.5 U	0.0054 U	0.32 U	170 U	0.0048 U	0.011 U	0.02 U	0.0061 U	0.0054 U
4-Ethyltoluene	~	~	0.00048 J	0.0056 U	16 U	0.00066 J	0.32 U	250 U	0.00081 J	0.013 U	0.03 U	0.0061 U	0.0054 U
Acetone	0.05	100	0.0029 J	0.0033 J	3.7 UJ	0.0096 J	0.79 U	36 U	0.0064 J	0.021 J	0.026 J	0.024 J	0.018 J
Benzene	0.06	4.8	0.0011 U	0.0014 U	0.37 U	0.0014 U	0.079 U	3.6 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0014 U
Bromomethane	~	~	0.0023 U	0.0028 UJ	0.75 U	0.0027 UJ	0.17 U	7.3 U	0.0024 UJ	0.0021 UJ	0.0026 UJ	0.003 UJ	0.0027 UJ
Carbon Disulfide	~	~	0.011 U	0.014 U	3.7 U	0.014 U	0.79 U	36 U	0.012 U	0.011 U	0.013 U	0.015 U	0.014 U
Chloroform	0.37	49	0.0017 U	0.0021 U	0.56 U	0.002 U	0.12 U	5.4 U	0.0018 U	0.0016 U	0.0019 U	0.0023 U	0.002 U
Cymene	~	~	0.0011 U	0.0014 U	0.26 J	0.0014 U	0.079 U	5.8 U	0.0012 U	0.00096 J	0.002 U	0.0015 U	0.0014 U
Ethylbenzene	1	41	0.0011 U	0.0014 U	0.77 U	0.0014 U	0.079 U	3.6 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0014 U
Isopropylbenzene (Cumene)	~	~	0.0011 U	0.0014 U	1.2 U	0.0014 U	0.079 U	20 U	0.0012 U	0.0028 U	0.006 U	0.0015 U	0.0014 U
M,P-Xylene	~	~	0.0023 U	0.0028 U	1.7 U	0.0027 U	0.16 U	2.8 J	0.0024 U	0.00051 J	0.0026 U	0.003 U	0.0027 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.011 UJ	0.014 U	3.7 U	0.014 U	0.79 U	36 U	0.012 U	0.011 U	0.013 U	0.015 U	0.014 U
Methylene Chloride	0.05	100	0.011 U	0.014 U	3.7 U	0.014 U	0.79 U	36 U	0.012 U	0.011 U	0.013 U	0.015 U	0.014 U
Naphthalene	12	100	0.0057 U	0.00022 J	0.75 J	0.0068 U	0.4 U	3.5 J	0.00058 J	0.0027 J	0.0012 J	0.0076 U	0.0068 U
n-Butylbenzene	12	100	0.0011 U	0.0014 U	0.93 U	0.0014 U	0.079 U	30	0.0012 U	0.0008 J	0.0019 U	0.0015 U	0.0014 U
n-Propylbenzene	3.9	100	0.0011 U	0.0014 U	3.9 U	0.0014 U	0.079 U	67	0.0012 U	0.0064 U	0.011 U	0.0015 U	0.0014 U
o-Xylene (1,2-Dimethylbenzene)	~	~	0.0023 U	0.0028 U	0.39 J	0.0027 U	0.16 U	7.3 U	0.0024 U	0.0021 U	0.0026 U	0.003 U	0.0027 U
Sec-Butylbenzene	11	100	0.0011 U	0.0014 U	0.49 U	0.0014 U	0.079 U	14	0.0012 U	0.00072 J	0.0016 U	0.0015 U	0.0014 U
T-Butylbenzene	5.9	100	0.0057 U	0.007 U	1.9 U	0.0068 U	0.4 U	18 U	0.0059 U	0.0054 U	0.0064 U	0.0076 U	0.0068 U
Toluene	0.7	100	0.00036 J	0.00028 J	0.56 U	0.002 U	0.12 U	5.4 U	0.0018 U	0.0016 U	0.0019 U	0.0023 U	0.002 U
Total Xylenes	0.26	100	0.0023 U	0.0028 U	2.1 J	0.0027 U	0.16 U	2.8 J	0.0024 U	0.00051 J	0.0026 U	0.003 U	0.0027 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are bolded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- All soil samples, except RSB32_11-13 and RSB33_11-13, were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Soil samples RSB32_11-13 and RSB33_11-13 were collected at sidewalk grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP03_072718 is a duplicate sample of RSB16_13-14

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 6
Soil Sample Analytical Results Summary - VOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC Part	NYSDEC Part	RSB14_1-2	RSB14_7-8	RSB14_10-11	RSB15_0-1	RSB15_7-8	RSB15_11-12	RSB16_6-8	RSB16_13-14	RSBDUP03_072718	RSB17_7-8	RSB17_8-9
Laboratory ID	375 UU SCOs	375 RRU SCOs	L1812435-12	L1812435-14	L1812435-13	L1812435-15	L1812435-17	L1812435-16	L1828984-01	L1829127-01	L1829127-08	L1829127-02	L1829127-03
Sample Date			4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	7/26/2018	7/27/2018	7/27/2018	7/27/2018	7/27/2018
Sample Depth (feet bgs)			1-2	7-8	10-11	0-1	7-8	11-12	6-8	13-14	13-14	7-8	8-9
Volatile Organic Compounds (mg/kg)													
1,2,3-Trichloropropane	~	~	0.015 U	0.013 U	0.015 U	0.014 U	0.013 U	0.022 U	3 U	0.002 U	0.0019 U	0.0022 U	0.0022 U
1,2,4,5-Tetramethylbenzene	~	~	0.0061 U	0.0054 U	0.0059 U	0.0055 U	0.0051 U	0.0089 U	22 U	0.002 U	0.0019 U	0.0054 U	0.0022 U
1,2,4-Trimethylbenzene	3.6	52	0.0076 U	0.0067 U	0.0074 U	0.0069 U	0.0063 U	0.011 U	200	0.002 U	0.0019 U	0.16	0.0022 U
1,2-Dichlorobenzene	1.1	100	0.0076 U	0.0067 U	0.0074 U	0.0069 U	0.0063 U	0.011 U	3 U	0.002 U	0.0019 U	0.0022 U	0.0022 U
1,2-Dichloroethane	0.02	3.1	0.0015 U	0.0013 U	0.0015 U	0.0014 U	0.0013 U	0.0022 U	1.5 U	0.001 U	0.00094 U	0.0011 U	0.0011 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0076 U	0.0067 U	0.0074 U	0.0069 U	0.0063 U	0.011 U	68	0.002 U	0.0019 U	0.053	0.0022 U
1,4-Diethyl Benzene	~	~	0.0061 U	0.0054 U	0.0059 U	0.0055 U	0.0051 U	0.0089 U	69	0.002 U	0.0019 U	0.013	0.0022 U
4-Ethyltoluene	~	~	0.0061 U	0.0054 U	0.0059 U	0.0055 U	0.0051 U	0.0089 U	100	0.002 U	0.0019 U	0.038	0.0022 U
Acetone	0.05	100	0.015 UJ	0.013 J	0.026 J	0.014 UJ	0.013 UJ	0.077 J	15 U	0.038 J	0.027 J	0.022 J	0.012 J
Benzene	0.06	4.8	0.0015 U	0.0013 U	0.0015 U	0.0014 U	0.0013 U	0.0022 U	0.74 U	0.00051 U	0.00016 J	0.00031 J	0.00054 U
Bromomethane	~	~	0.003 UJ	0.0027 UJ	0.0029 UJ	0.0028 UJ	0.0025 UJ	0.0044 UJ	3 U	0.002 U	0.0019 U	0.0022 U	0.0022 U
Carbon Disulfide	~	~	0.015 U	0.013 U	0.015 U	0.014 U	0.013 U	0.0044 J	15 U	0.01 U	0.0094 U	0.011 U	0.011 U
Chloroform	0.37	49	0.0023 U	0.002 U	0.0022 U	0.0021 U	0.0019 U	0.0033 U	2.2 U	0.0015 U	0.0014 U	0.0017 U	0.0016 U
Cymene	~	~	0.0015 U	0.0013 U	0.0015 U	0.0014 U	0.0013 U	0.0022 U	2.7 U	0.001 U	0.00094 U	0.00085 J	0.0011 U
Ethylbenzene	1	41	0.0015 U	0.0013 U	0.0015 U	0.0014 U	0.0013 U	0.0022 U	2.4	0.001 U	0.00094 U	0.011	0.0011 U
Isopropylbenzene (Cumene)	~	~	0.0015 U	0.0013 U	0.0015 U	0.0014 U	0.0013 U	0.0022 U	9.6	0.001 U	0.00094 U	0.0083	0.0011 U
M,P-Xylene	~	~	0.003 U	0.0027 U	0.0029 U	0.0028 U	0.0025 U	0.0044 U	27	0.002 U	0.0019 U	0.074	0.0022 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.015 U	0.013 U	0.015 U	0.014 U	0.013 U	0.0086 J	15 U	0.01 U	0.0094 U	0.011 U	0.011 U
Methylene Chloride	0.05	100	0.015 U	0.013 U	0.015 U	0.014 U	0.013 U	0.022 U	3.4 J	0.0051 U	0.0047 U	0.0056 U	0.0054 U
Naphthalene	12	100	0.0076 U	0.0067 U	0.0074 U	0.0069 U	0.0063 U	0.011 U	7.4	0.0041 U	0.0038 U	0.021	0.0043 U
n-Butylbenzene	12	100	0.0015 U	0.0013 U	0.0015 U	0.0014 U	0.0013 U	0.0022 U	9	0.001 U	0.00094 U	0.00088 J	0.0011 U
n-Propylbenzene	3.9	100	0.0015 U	0.0013 U	0.0015 U	0.0014 U	0.0013 U	0.0022 U	29	0.001 U	0.00094 U	0.018	0.0011 U
o-Xylene (1,2-Dimethylbenzene)	~	~	0.003 U	0.0027 U	0.0029 U	0.0028 U	0.0025 U	0.0044 U	4.3	0.001 U	0.00094 U	0.0051	0.0011 U
Sec-Butylbenzene	11	100	0.0015 U	0.0013 U	0.0015 U	0.0014 U	0.0013 U	0.0022 U	4.5	0.001 U	0.00094 U	0.0011 U	0.0011 U
T-Butylbenzene	5.9	100	0.0076 U	0.0067 U	0.0074 U	0.0069 U	0.0063 U	0.011 U	3 U	0.002 U	0.0019 U	0.0022 U	0.0022 U
Toluene	0.7	100	0.0023 U	0.002 U	0.0022 U	0.00033 J	0.0019 U	0.00053 J	1.5 U	0.001 U	0.00052 J	0.0016	0.0011 U
Total Xylenes	0.26	100	0.003 U	0.0027 U	0.0029 U	0.0028 U	0.0025 U	0.0044 U	31	0.001 U	0.00094 U	0.079	0.0011 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are bolded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- All soil samples, except RSB32_11-13 and RSB33_11-13, were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Soil samples RSB32_11-13 and RSB33_11-13 were collected at sidewalk grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP03_072718 is a duplicate sample of RSB16_13-14

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 6
Soil Sample Analytical Results Summary - VOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC Part	NYSDEC Part	RSB18_4-6	RSB19_7-8	RSB19_8-9	RSB20_4-6	RSB21_8-9	RSB21_11-12	RSB22_8-9	RSB22_10-12	RSB25_4-5	RSB26_7-8	RSB26_10-11
Laboratory ID	375 UU SCOs	375 RRU SCOs	L1829127-06	L1829127-04	L1829127-05	L1829309-01	L1829309-06	L1829309-05	L1829309-02	L1829309-03	L1829484-03	L1829484-02	L1829484-01
Sample Date			7/27/2018	7/27/2018	7/27/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/31/2018	7/31/2018	7/31/2018
Sample Depth (feet bgs)			4-6	7-8	8-9	4-6	8-9	11-12	8-9	10-12	4-5	7-8	10-11
Volatile Organic Compounds (mg/kg)													
1,2,3-Trichloropropane	~	~	0.0018 U	0.0019 U	0.0023 U	0.0011 U	0.13 U	0.0022 U	0.0022 U	0.0023 U	0.0018 U	0.002 U	0.0019 U
1,2,4,5-Tetramethylbenzene	~	~	0.0018 U	0.0046 U	0.0023 U	0.0011 U	0.023 J	0.0022 U	0.00074 J	0.0023 U	0.0018 U	0.06	0.0019 U
1,2,4-Trimethylbenzene	3.6	52	0.0018 U	0.0019 U	0.0023 U	0.0011 U	0.13 U	0.0022 U	0.00046 J	0.0023 U	0.0018 U	0.19	0.0019 U
1,2-Dichlorobenzene	1.1	100	0.0018 U	0.0019 U	0.0023 U	0.0011 U	0.13 U	0.0022 U	0.0022 U	0.0023 U	0.0018 U	0.00035 J	0.0019 U
1,2-Dichloroethane	0.02	3.1	0.00091 U	0.00097 U	0.0012 U	0.00055 U	0.067 U	0.0011 U	0.0011 U	0.0012 U	0.00088 U	0.001 U	0.00095 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0018 U	0.0018 J	0.0023 U	0.0011 U	0.059 J	0.0022 U	0.0022 U	0.0023 U	0.0018 U	NA	0.0019 U
1,4-Diethyl Benzene	~	~	0.0018 U	0.0017 J	0.0023 U	0.0011 U	0.019 J	0.0022 U	0.0022 U	0.0023 U	0.0018 U	0.14	0.0019 U
4-Ethyltoluene	~	~	0.0018 U	0.0084 U	0.0023 U	0.0011 U	0.16	0.0022 U	0.0022 U	0.0023 U	0.0018 U	0.086 J	0.0019 U
Acetone	0.05	100	0.015 J	0.041 J	0.012 U	0.0061 J	0.67 U	0.042 J	0.02 J	0.012 J	0.012 J	0.01 U	0.017 J
Benzene	0.06	4.8	0.00016 J	0.00033 J	0.00026 J	0.00027 U	0.034 U	0.00054 U	0.00022 J	0.0003 J	0.00044 U	0.0005 U	0.00048 U
Bromomethane	~	~	0.0018 U	0.0019 U	0.0023 U	0.0011 U	0.13 U	0.0022 U	0.0022 U	0.0023 U	0.0018 U	0.002 U	0.0019 U
Carbon Disulfide	~	~	0.0091 U	0.0097 U	0.012 U	0.0055 U	0.67 U	0.011 U	0.011 U	0.012 U	0.0088 U	0.01 U	0.0095 U
Chloroform	0.37	49	0.0014 U	0.0014 U	0.0018 U	0.00082 U	0.1 U	0.0016 U	0.0016 U	0.0017 U	0.0013 U	0.0015 U	0.0014 U
Cymene	~	~	0.00091 U	0.00023 J	0.0012 U	0.00055 U	0.067 U	0.0011 U	0.0011 U	0.0012 U	0.00088 U	0.022	0.00095 U
Ethylbenzene	1	41	0.00091 U	0.019	0.00053 J	0.00055 U	0.25	0.0011 U	0.001 J	0.0012 U	0.00088 U	0.14	0.00095 U
Isopropylbenzene (Cumene)	~	~	0.00091 U	0.0068	0.00048 J	0.00055 U	0.014 J	0.0011 U	0.0011 U	0.0012 U	0.00088 U	0.091	0.00095 U
M,P-Xylene	~	~	0.0018 U	0.0088	0.0023 U	0.0011 U	0.86	0.0022 U	0.00062 J	0.0023 U	0.0018 U	0.3	0.0019 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0091 U	0.0097 U	0.012 U	0.0055 U	0.67 U	0.011 U	0.011 U	0.012 U	0.0088 U	0.01 U	0.0095 U
Methylene Chloride	0.05	100	0.0045 U	0.0049 U	0.0058 U	0.0027 U	0.34 U	0.0054 U	0.0054 U	0.0058 U	0.0044 U	0.005 U	0.0048 U
Naphthalene	12	100	0.0036 U	0.0064	0.0047 U	0.0022 U	0.11 J	0.0043 U	0.0043 U	0.0046 U	0.001 J	0.25	0.0038 U
n-Butylbenzene	12	100	0.00091 U	0.00074 J	0.0012 U	0.00055 U	0.067 U	0.0011 U	0.0011 U	0.0012 U	0.00088 U	0.0078	0.00095 U
n-Propylbenzene	3.9	100	0.00091 U	0.011	0.00031 J	0.00055 U	0.049 J	0.0011 U	0.00082 J	0.0012 U	0.00088 U	0.14	0.00095 U
o-Xylene (1,2-Dimethylbenzene)	~	~	0.00091 U	0.0027	0.0012 U	0.00055 U	0.067 U	0.0011 U	0.0011 U	0.0012 U	0.00088 U	0.46	0.00095 U
Sec-Butylbenzene	11	100	0.00091 U	0.00086 J	0.00026 J	0.00055 U	0.067 U	0.0011 U	0.0011 U	0.0012 U	0.00088 U	0.011	0.00095 U
T-Butylbenzene	5.9	100	0.0018 U	0.0019 U	0.00015 J	0.0011 U	0.13 U	0.0022 U	0.0022 U	0.0023 U	0.0018 U	0.0022	0.0019 U
Toluene	0.7	100	0.00067 J	0.0012	0.00078 J	0.00055 U	0.067 U	0.0011 U	0.0011 U	0.00091 J	0.00088 U	0.0011	0.00095 U
Total Xylenes	0.26	100	0.00091 U	0.012	0.0012 U	0.00055 U	0.86	0.0011 U	0.00062 J	0.0012 U	0.00088 U	0.76	0.00095 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
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- Soil samples RSB32_11-13 and RSB33_11-13 were collected at sidewalk grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP03_072718 is a duplicate sample of RSB16_13-14

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 6
Soil Sample Analytical Results Summary - VOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RRU SCOs	RSB27_9-10 L1829309-09 7/30/2018 9-10	RSB27_11-12 L1829309-10 7/30/2018 11-12	RSB28_6-7 L1829309-11 7/30/2018 6-7	RSB29_8-9 L1829484-05 7/31/2018 8-9	RSB29_10-11 L1829484-04 7/31/2018 10-11	RSB30_5-6 L1829932-01 8/2/2018 5-6	RSB31_6-7 L1829793-01 8/1/2018 6-7	RSB32_11-13 L1834771-02 9/4/2018 11-13	RSB33_11-13 L1834771-01 9/4/2018 11-13
Volatile Organic Compounds (mg/kg)											
1,2,3-Trichloropropane	~	~	0.002 U	0.002 U	0.0017 U	0.0018 U	0.002 U	0.0019 U	0.002 U	0.0018 U	0.0018 U
1,2,4,5-Tetramethylbenzene	~	~	0.0034 U	0.00043 J	0.0017 U	0.0041 U	0.002 U	0.0019 U	0.00039 J	0.0018 U	0.0018 U
1,2,4-Trimethylbenzene	3.6	52	0.011 U	0.002 U	0.0017 U	0.017 U	0.002 U	0.0019 U	0.002 U	0.0018 U	0.0018 U
1,2-Dichlorobenzene	1.1	100	0.002 U	0.002 U	0.0017 U	0.0018 U	0.002 U	0.0019 U	0.002 U	0.0018 U	0.0018 U
1,2-Dichloroethane	0.02	3.1	0.001 U	0.00084 J	0.00087 U	0.00091 U	0.001 U	0.00097 U	0.001 U	0.00092 U	0.00091 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0078 U	0.002 U	0.0017 U	0.00066 J	0.002 U	0.0019 U	0.002 U	0.0018 U	0.0018 U
1,4-Diethyl Benzene	~	~	0.002 U	0.002 U	0.0017 U	0.00087 J	0.002 U	0.0019 U	0.00031 J	0.0018 U	0.0018 U
4-Ethyltoluene	~	~	0.0072 U	0.002 U	0.0017 U	0.0044 U	0.002 U	0.0019 U	0.002 U	0.0018 U	0.0018 U
Acetone	0.05	100	0.042 J	0.046 J	0.026 J	0.027 J	0.032	0.0097 U	0.015	0.0095	0.022
Benzene	0.06	4.8	0.00029 J	0.00022 J	0.00021 J	0.00068 U	0.00051 U	0.00048 U	0.00018 J	0.0002 J	0.00046 U
Bromomethane	~	~	0.002 U	0.002 U	0.0017 U	0.0018 U	0.002 U	0.0019 U	0.002 U	0.0018 U	0.0018 U
Carbon Disulfide	~	~	0.01 U	0.0099 U	0.0087 U	0.0091 U	0.01 U	0.0097 U	0.01 U	0.0092 U	0.0091 U
Chloroform	0.37	49	0.0015 U	0.0015 U	0.0013 U	0.0014 U	0.0015 U	0.0014 U	0.0015 U	0.0014 U	0.0014 U
Cymene	~	~	0.001 U	0.00099 U	0.00087 U	0.00091 U	0.001 U	0.00097 U	0.001 U	0.00092 U	0.00091 U
Ethylbenzene	1	41	0.01 U	0.00099 U	0.00087 U	0.022 U	0.001 U	0.00097 U	0.001 U	0.00092 U	0.00091 U
Isopropylbenzene (Cumene)	~	~	0.0042 U	0.00099 U	0.00087 U	0.0037 U	0.001 U	0.00097 U	0.001 U	0.00092 U	0.00091 U
M,P-Xylene	~	~	0.017 U	0.002 U	0.0017 U	0.033 U	0.002 U	0.0019 U	0.002 U	0.0018 U	0.0018 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.01 U	0.0086 J	0.0087 U	0.0091 U	0.01 U	0.0097 U	0.01 U	0.0092 U	0.0091 U
Methylene Chloride	0.05	100	0.005 U	0.005 U	0.0043 U	0.0046 U	0.0051 U	0.0048 U	0.005 U	0.0046 U	0.0046 U
Naphthalene	12	100	0.00081 J	0.004 U	0.001 J	0.0048 U	0.0041 U	0.0039 U	0.004 U	0.0037 U	0.0036 U
n-Butylbenzene	12	100	0.00033 J	0.00099 U	0.00087 U	0.00079 J	0.001 U	0.00097 U	0.001 U	0.00092 U	0.00091 U
n-Propylbenzene	3.9	100	0.0043 U	0.00099 U	0.00087 U	0.0089 U	0.001 U	0.00097 U	0.001 U	0.00092 U	0.00091 U
o-Xylene (1,2-Dimethylbenzene)	~	~	0.0012 U	0.00099 U	0.00087 U	0.0029 U	0.001 U	0.00097 U	0.001 U	0.00092 U	0.00091 U
Sec-Butylbenzene	11	100	0.00056 J	0.00099 U	0.00087 U	0.00058 J	0.001 U	0.00097 U	0.001 U	0.00092 U	0.00091 U
T-Butylbenzene	5.9	100	0.002 U	0.00075 J	0.0017 U	0.0018 U	0.002 U	0.0019 U	0.002 U	0.0018 U	0.0018 U
Toluene	0.7	100	0.0011 U	0.00068 J	0.00077 J	0.0009 J	0.001 U	0.00097 U	0.00076 J	0.00092 U	0.00091 U
Total Xylenes	0.26	100	0.018 U	0.00099 U	0.00087 U	0.036 U	0.001 U	0.00097 U	0.001 U	0.00092 U	0.00091 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are bolded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- All soil samples, except RSB32_11-13 and RSB33_11-13, were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Soil samples RSB32_11-13 and RSB33_11-13 were collected at sidewalk grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP03_072718 is a duplicate sample of RSB16_13-14

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 7
Soil Sample Analytical Results Summary - SVOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RRU SCOs	RSB01_1-2 L1812618-01 4/11/2018 1-2	RSBDUP02_041118 L1812618-10 4/11/2018 1-2	RSB01_6-7 L1812618-02 4/11/2018 6-7	RSB01_10-11 L1812618-03 4/11/2018 10-11	RSB02_0-1 L1812618-04 4/11/2018 0-1	RSB02_6-7 L1812618-05 4/11/2018 6-7	RSB03_0-1 L1812618-06 4/11/2018 0-1	RSB03_7-8 L1812618-07 4/11/2018 7-8	RSB04_1-2 L1812210-02 4/9/2018 1-2	RSB04_6-7 L1812210-01 4/9/2018 6-7	RSB04_10-11 L1812210-03 4/9/2018 10-11	
Semivolatile Organic Compounds (mg/kg)														
2-Methylnaphthalene	~	~	0.23 U	0.23 U	0.32 U	0.32 U	0.23 U	0.25 U	0.21 U	0.15 J	0.22 U	0.078 J	0.25 U	
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.28 U	0.28 U	0.29 U	0.3 U	0.27 U	0.3 U	0.26 U	0.3 U	0.26 U	0.28 U	0.3 U	
Acenaphthene	20	100	0.16 U	0.15 U	0.16 U	0.16 U	0.15 U	0.17 U	0.14 U	0.16 U	0.15 U	0.16 U	0.16 U	
Acenaphthylene	100	100	0.16 U	0.15 U	0.16 U	0.16 U	0.15 U	0.17 U	0.14 U	0.16 U	0.15 U	0.16 U	0.16 U	
Anthracene	100	100	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.05 J	0.12 U	0.11 U	0.12 U	0.12 U	
Benzo(a)Anthracene	1	1	0.12 U	0.027 J	0.12 U	0.12 U	0.11 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U	0.12 U	
Benzo(a)Pyrene	1	1	0.16 U	0.15 U	0.16 U	0.16 U	0.15 U	0.17 U	0.092 J	0.16 U	0.15 U	0.16 U	0.16 U	
Benzo(b)Fluoranthene	1	1	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.12 U	0.11 U	0.12 U	0.12 U	
Benzo(g,h,i)Perylene	100	100	0.16 U	0.15 U	0.16 U	0.16 U	0.15 U	0.17 U	0.063 J	0.16 U	0.15 U	0.16 U	0.16 U	
Benzo(k)Fluoranthene	0.8	3.9	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.045 J	0.12 U	0.11 U	0.12 U	0.12 U	
Biphenyl (Diphenyl)	~	~	0.44 U	0.44 U	0.45 U	0.47 U	0.43 U	0.48 U	0.4 U	0.47 U	0.42 U	0.45 U	0.47 U	
Bis(2-Ethylhexyl) Phthalate	~	~	0.19 U	0.089 J	0.2 U	0.2 U	0.19 U	0.21 U	0.069 J	0.21 U	0.18 U	0.2 U	0.2 U	
Carbazole	~	~	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.21 U	0.18 U	0.21 U	0.18 U	0.2 U	0.2 U	
Chrysene	1	3.9	0.022 J	0.028 J	0.12 U	0.12 U	0.11 U	0.13 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U	
Dibenz(a,h)Anthracene	0.33	0.33	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U	
Dibenzofuran	7	59	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.21 U	0.18 U	0.21 U	0.18 U	0.2 U	0.2 U	
Fluoranthene	100	100	0.034 J	0.046 J	0.12 U	0.12 U	0.11 U	0.13 U	0.23 U	0.12 U	0.11 U	0.12 U	0.12 U	
Fluorene	30	100	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.21 U	0.019 J	0.21 U	0.18 U	0.2 U	0.2 U	
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.16 U	0.15 U	0.16 U	0.16 U	0.15 U	0.17 U	0.069 J	0.16 U	0.15 U	0.16 U	0.16 U	
Naphthalene	12	100	0.19 U	0.19 U	0.37 U	0.44 U	0.19 U	0.21 U	0.18 U	0.21 U	0.18 U	0.064 J	0.2 U	
Phenanthrene	100	100	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	0.13 U	0.049 J	0.11 U	0.12 U	0.12 U	
Phenol	0.33	100	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.21 U	0.046 J	0.21 U	0.18 U	0.2 U	0.2 U	
Pyrene	100	100	0.04 J	0.044 J	0.12 U	0.12 U	0.11 U	0.13 U	0.24 U	0.12 U	0.11 U	0.12 U	0.12 U	

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are shaded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP04_072618 is a duplicate sample of RSB13_S1_7-8

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 7
Soil Sample Analytical Results Summary - SVOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RRU SCOs	RSB05_0-1 L1812435-01 4/10/2018 0-1	RSB05_6-7 L1812435-02 4/10/2018 6-7	RSB06_1-2 L1812435-03 4/10/2018 1-2	RSB06_7-8 L1812435-04 4/10/2018 7-8	RSB07_1-2 L1812435-05 4/10/2018 1-2	RSB07_7-8 L1812435-06 4/10/2018 7-8	RSB07_N1_7-8 L1828986-01 7/26/2018 7-8	RSB07_R_5-7 L1828986-08 7/26/2018 5-7	RSB07_R_7-8 L1828986-09 7/26/2018 7-8	RSB07_R_8-10 L1828986-11 7/26/2018 8-10
Semivolatile Organic Compounds (mg/kg)												
2-Methylnaphthalene	~	~	0.22 U	0.26 U	0.23 U	0.25 U	0.23 U	0.24 U	0.31 U	0.24 U	0.24 U	0.25 U
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.27 U	0.31 U	0.27 U	0.3 U	0.28 U	0.037 J	0.38 U	0.29 U	0.29 U	0.3 U
Acenaphthene	20	100	0.15 U	0.17 U	0.15 U	0.17 U	0.16 U	0.065 J	0.21 U	0.032 J	0.16 U	0.17 U
Acenaphthylene	100	100	0.15 U	0.17 U	0.15 U	0.17 U	0.16 U	0.26 U	0.21 U	0.16 U	0.16 U	0.17 U
Anthracene	100	100	0.11 U	0.13 U	0.11 U	0.12 U	0.12 U	0.41 U	0.16 U	0.12 U	0.12 U	0.12 U
Benzo(a)Anthracene	1	1	0.11 U	0.13 U	0.026 J	0.12 U	0.062 J	2.7	0.16 U	0.14 U	0.12 U	0.12 U
Benzo(a)Pyrene	1	1	0.15 U	0.17 U	0.15 U	0.17 U	0.061 J	2.2	0.21 U	0.15 J	0.16 U	0.17 U
Benzo(b)Fluoranthene	1	1	0.11 U	0.13 U	0.033 J	0.12 U	0.081 J	3.2	0.16 U	0.2 U	0.12 U	0.12 U
Benzo(g,h,i)Perylene	100	100	0.15 U	0.17 U	0.15 U	0.17 U	0.043 J	1.5	0.21 U	0.099 J	0.16 U	0.17 U
Benzo(k)Fluoranthene	0.8	3.9	0.11 U	0.13 U	0.11 U	0.12 U	0.12 U	0.88	0.16 U	0.057 J	0.12 U	0.12 U
Biphenyl (Diphenyl)	~	~	0.42 U	0.49 U	0.43 U	0.47 U	0.44 U	0.46 U	0.6 U	0.45 U	0.46 U	0.47 U
Bis(2-Ethylhexyl) Phthalate	~	~	0.18 U	0.21 U	0.19 U	0.21 U	0.19 U	0.2 U	0.26 U	0.2 U	0.2 U	0.21 U
Carbazole	~	~	0.18 U	0.21 U	0.19 U	0.21 U	0.19 U	0.43 U	0.26 U	0.037 J	0.2 U	0.21 U
Chrysene	1	3.9	0.11 U	0.13 U	0.025 J	0.12 U	0.058 J	2.6	0.16 U	0.15 U	0.12 U	0.12 U
Dibenz(a,h)Anthracene	0.33	0.33	0.11 U	0.13 U	0.11 U	0.12 U	0.12 U	0.35	0.16 U	0.12 U	0.12 U	0.12 U
Dibenzofuran	7	59	0.18 U	0.21 U	0.19 U	0.21 U	0.19 U	0.045 J	0.26 U	0.2 U	0.2 U	0.21 U
Fluoranthene	100	100	0.11 U	0.13 U	0.044 J	0.12 U	0.1 J	4.8	0.16 U	0.3 U	0.12 U	0.12 U
Fluorene	30	100	0.18 U	0.21 U	0.19 U	0.21 U	0.19 U	0.095 J	0.26 U	0.04 J	0.2 U	0.21 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.15 U	0.17 U	0.15 U	0.17 U	0.047 J	1.7	0.21 U	0.11 J	0.16 U	0.17 U
Naphthalene	12	100	0.18 U	0.21 U	0.19 U	0.21 U	0.19 U	0.065 J	0.26 U	0.054 J	0.2 U	0.21 U
Phenanthrene	100	100	0.11 U	0.13 U	0.11 U	0.12 U	0.03 J	1.7	0.16 U	0.13 U	0.12 U	0.12 U
Phenol	0.33	100	0.18 U	0.21 U	0.19 U	0.21 U	0.19 U	0.2 U	0.26 U	0.2 U	0.2 U	0.21 U
Pyrene	100	100	0.11 U	0.13 U	0.042 J	0.12 U	0.091 J	4.2	0.16 U	0.27 U	0.12 U	0.12 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
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- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP04_072618 is a duplicate sample of RSB13_S1_7-8

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 7
Soil Sample Analytical Results Summary - SVOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RRU SCOs	RSB07_SE1_7-8 L1828986-05 7/26/2018 7-8	RSB07_SW1_7-8 L1828986-03 7/26/2018 7-8	RSB08_1-2 L1812435-07 4/10/2018 1-2	RSB08_7-8 L1812435-08 4/10/2018 7-8	RSB08_14-15 L1812435-09 4/10/2018 14-15	RSB09_1-2 L1812618-08 4/11/2018 1-2	RSB09_7-8 L1812618-09 4/11/2018 7-8	RSB10_1-2 L1812210-04 4/9/2018 1-2	RSBDUP01_040918 L1812210-12 4/9/2018 1-2	RSB10_9-10 L1812210-05 4/9/2018 9-10
Semivolatile Organic Compounds (mg/kg)												
2-Methylnaphthalene	~	~	0.31 U	0.26 U	0.25 U	0.23 U	0.29 U	0.22 U	0.22 U	0.22 U	0.22 U	0.25 U
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.37 U	0.31 U	0.3 U	0.28 U	0.35 U	0.26 U	0.27 U	0.26 U	0.26 U	0.3 U
Acenaphthene	20	100	0.21 U	0.17 U	0.16 U	0.16 U	0.19 U	0.14 U	0.15 U	0.15 U	0.14 U	0.17 U
Acenaphthylene	100	100	0.21 U	0.17 U	0.16 U	0.16 U	0.19 U	0.14 U	0.052 J	0.15 U	0.14 U	0.17 U
Anthracene	100	100	0.15 U	0.13 U	0.12 U	0.12 U	0.14 U	0.11 U	0.058 J	0.11 U	0.11 U	0.13 U
Benzo(a)Anthracene	1	1	0.15 U	0.13 U	0.03 J	0.051 J	0.14 U	0.11 U	0.27	0.11 U	0.11 U	0.13 U
Benzo(a)Pyrene	1	1	0.21 U	0.17 U	0.16 U	0.16 U	0.19 U	0.14 U	0.26	0.15 U	0.14 U	0.17 U
Benzo(b)Fluoranthene	1	1	0.15 U	0.13 U	0.04 J	0.056 J	0.14 U	0.11 U	0.34	0.11 U	0.11 U	0.13 U
Benzo(g,h,i)Perylene	100	100	0.21 U	0.17 U	0.16 U	0.029 J	0.19 U	0.14 U	0.15	0.15 U	0.14 U	0.17 U
Benzo(k)Fluoranthene	0.8	3.9	0.15 U	0.13 U	0.12 U	0.12 U	0.14 U	0.11 U	0.1 J	0.11 U	0.11 U	0.13 U
Biphenyl (Diphenyl)	~	~	0.59 U	0.49 U	0.47 U	0.45 U	0.55 U	0.42 U	0.43 U	0.42 U	0.41 U	0.48 U
Bis(2-Ethylhexyl) Phthalate	~	~	0.26 U	0.21 U	0.21 U	0.2 U	0.24 U	0.18 U	0.19 U	0.18 U	0.18 U	0.21 U
Carbazole	~	~	0.26 U	0.21 U	0.21 U	0.2 U	0.24 U	0.18 U	0.19 U	0.18 U	0.18 U	0.21 U
Chrysene	1	3.9	0.15 U	0.13 U	0.03 J	0.048 J	0.14 U	0.11 U	0.3	0.11 U	0.11 U	0.13 U
Dibenz(a,h)Anthracene	0.33	0.33	0.15 U	0.13 U	0.12 U	0.12 U	0.14 U	0.11 U	0.041 J	0.11 U	0.11 U	0.13 U
Dibenzofuran	7	59	0.26 U	0.21 U	0.21 U	0.2 U	0.24 U	0.18 U	0.19 U	0.18 U	0.18 U	0.21 U
Fluoranthene	100	100	0.15 U	0.13 U	0.054 J	0.096 J	0.14 U	0.11 U	0.59	0.11 U	0.11 U	0.13 U
Fluorene	30	100	0.26 U	0.21 U	0.21 U	0.2 U	0.24 U	0.18 U	0.19 U	0.18 U	0.18 U	0.21 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.21 U	0.17 U	0.16 U	0.03 J	0.19 U	0.14 U	0.16	0.15 U	0.14 U	0.17 U
Naphthalene	12	100	0.26 U	0.21 U	0.21 U	0.2 U	0.24 U	0.18 U	0.19 U	0.18 U	0.18 U	0.21 U
Phenanthrene	100	100	0.15 U	0.13 U	0.12 U	0.039 J	0.14 U	0.11 U	0.22	0.11 U	0.11 U	0.13 U
Phenol	0.33	100	0.26 U	0.21 U	0.21 U	0.2 U	0.24 U	0.18 U	0.19 U	0.18 U	0.18 U	0.21 U
Pyrene	100	100	0.15 U	0.13 U	0.05 J	0.091 J	0.14 U	0.11 U	0.53	0.11 U	0.11 U	0.13 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
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- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade.
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- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP04_072618 is a duplicate sample of RSB13_S1_7-8

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
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Soil Sample Analytical Results Summary - SVOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RRU SCOs	RSB11_1-2 L1812210-08 4/9/2018 1-2	RSB11_5-6 L1812210-07 4/9/2018 5-6	RSB11_8-9 L1812210-06 4/9/2018 8-9	RSB12_1-2 L1812210-09 4/9/2018 1-2	RSB12_5-6 L1812210-11 4/9/2018 5-6	RSB12_7-8 L1812210-10 4/9/2018 7-8	RSB13_1-2 L1812435-10 4/10/2018 1-2	RSB13_7-8 L1812435-11 4/10/2018 7-8	RSB13_E1_7-8 L1829127-09 7/27/2018 7-8	RSB13_NW1_7-8 L1828987-04 7/26/2018 7-8
Semivolatile Organic Compounds (mg/kg)												
2-Methylnaphthalene	~	~	0.23 U	16	7.2	0.23 U	0.26 U	0.39	0.025 J	0.23 U	0.24 U	0.24 U
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.28 U	0.59 U	0.3 U	0.27 U	0.31 U	0.32 U	0.26 U	0.27 U	0.29 U	0.28 U
Acenaphthene	20	100	0.15 U	0.056 J	0.042 J	0.15 U	0.17 U	0.18 U	0.34	0.12 J	0.16 U	0.16 U
Acenaphthylene	100	100	0.15 U	0.33 U	0.17 U	0.15 U	0.17 U	0.18 U	0.028 J	0.15 U	0.16 U	0.16 U
Anthracene	100	100	0.11 U	0.24 U	0.12 U	0.11 U	0.13 U	0.13 U	0.89	0.41	0.12 U	0.12 U
Benzo(a)Anthracene	1	1	0.11 U	0.24 U	0.12 U	0.11 U	0.13 U	0.13 U	1.8	1	0.026 J	0.031 J
Benzo(a)Pyrene	1	1	0.15 U	0.33 U	0.17 U	0.15 U	0.17 U	0.18 U	1.5	1	0.16 U	0.16 U
Benzo(b)Fluoranthene	1	1	0.11 U	0.24 U	0.12 U	0.11 U	0.13 U	0.13 U	1.9	1.2	0.039 J	0.035 J
Benzo(g,h,i)Perylene	100	100	0.15 U	0.33 U	0.17 U	0.15 U	0.17 U	0.18 U	1	0.58	0.16 U	0.16 U
Benzo(k)Fluoranthene	0.8	3.9	0.11 U	0.24 U	0.12 U	0.11 U	0.13 U	0.13 U	0.49	0.3	0.12 U	0.12 U
Biphenyl (Diphenyl)	~	~	0.44 U	0.1 J	0.058 J	0.43 U	0.49 U	0.51 U	0.42 U	0.43 U	0.46 U	0.45 U
Bis(2-Ethylhexyl) Phthalate	~	~	0.19 U	0.41 U	0.17 J	0.19 U	0.68	0.22 U	0.18 U	0.19 U	0.2 U	0.2 U
Carbazole	~	~	0.19 U	0.41 U	0.21 U	0.19 U	0.21 U	0.22 U	0.1 J	0.021 J	0.2 U	0.2 U
Chrysene	1	3.9	0.11 U	0.24 U	0.12 U	0.11 U	0.13 U	0.13 U	1.7	0.95	0.027 J	0.029 J
Dibenz(a,h)Anthracene	0.33	0.33	0.11 U	0.24 U	0.12 U	0.11 U	0.13 U	0.13 U	0.2	0.1 J	0.12 U	0.12 U
Dibenzofuran	7	59	0.19 U	0.41 U	0.21 U	0.19 U	0.21 U	0.22 U	0.13 J	0.036 J	0.2 U	0.2 U
Fluoranthene	100	100	0.11 U	0.24 U	0.024 J	0.11 U	0.13 U	0.13 U	4	2.5	0.055 J	0.057 J
Fluorene	30	100	0.19 U	0.092 J	0.061 J	0.19 U	0.21 U	0.22 U	0.26	0.088 J	0.2 U	0.2 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.15 U	0.33 U	0.17 U	0.15 U	0.17 U	0.18 U	1.1	0.64	0.16 U	0.16 U
Naphthalene	12	100	0.19 U	4	1.6	0.19 U	0.21 U	0.18 J	0.042 J	0.19 U	0.2 U	0.2 U
Phenanthrene	100	100	0.11 U	0.17 J	0.11 J	0.11 U	0.13 U	0.13 U	2.8	1.4	0.025 J	0.027 J
Phenol	0.33	100	0.19 U	0.41 U	0.21 U	0.19 U	0.21 U	0.22 U	0.18 U	0.19 U	0.2 U	0.2 U
Pyrene	100	100	0.11 U	0.046 J	0.037 J	0.11 U	0.13 U	0.13 U	3.6	2.1	0.048 J	0.056 J

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
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QUALIFIERS:

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Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RRU SCOs	RSB13_R_7-8 L1828987-01 7/26/2018 7-8	RSB13_R_8-10 L1828987-02 7/26/2018 8-10	RSB13_S1_7-8 L1828987-07 7/26/2018 7-8	RSBDUP04_072618 L1828987-09 7/26/2018 7-8	RSB14_1-2 L1812435-12 4/10/2018 1-2	RSB14_7-8 L1812435-14 4/10/2018 7-8	RSB14_10-11 L1812435-13 4/10/2018 10-11	RSB15_0-1 L1812435-15 4/10/2018 0-1	RSB15_7-8 L1812435-17 4/10/2018 7-8	RSB15_11-12 L1812435-16 4/10/2018 11-12
Semivolatile Organic Compounds (mg/kg)												
2-Methylnaphthalene	~	~	0.24 U	0.24 U	0.22 U	0.22 U	0.22 U	0.24 U	0.26 U	0.21 U	0.25 U	0.29 U
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.29 U	0.29 U	0.26 U	0.27 U	0.26 U	0.29 U	0.31 U	0.26 U	0.3 U	0.34 U
Acenaphthene	20	100	0.16 U	0.16 U	0.14 U	0.15 U	0.15 U	0.16 U	0.17 U	0.14 U	0.16 U	0.19 U
Acenaphthylene	100	100	0.16 U	0.16 U	0.14 U	0.15 U	0.15 U	0.16 U	0.17 U	0.14 U	0.16 U	0.19 U
Anthracene	100	100	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.13 U	0.11 U	0.12 U	0.14 U
Benzo(a)Anthracene	1	1	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.13 U	0.023 J	0.12 U	0.14 U
Benzo(a)Pyrene	1	1	0.16 U	0.16 U	0.14 U	0.15 U	0.15 U	0.16 U	0.17 U	0.14 U	0.16 U	0.19 U
Benzo(b)Fluoranthene	1	1	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.13 U	0.11 U	0.12 U	0.14 U
Benzo(g,h,i)Perylene	100	100	0.16 U	0.16 U	0.14 U	0.15 U	0.15 U	0.16 U	0.17 U	0.14 U	0.16 U	0.19 U
Benzo(k)Fluoranthene	0.8	3.9	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.13 U	0.11 U	0.12 U	0.14 U
Biphenyl (Diphenyl)	~	~	0.46 U	0.46 U	0.42 U	0.42 U	0.42 U	0.46 U	0.49 U	0.41 U	0.47 U	0.54 U
Bis(2-Ethylhexyl) Phthalate	~	~	0.2 U	0.2 U	0.18 U	0.18 U	0.18 U	0.2 U	0.21 U	0.18 U	0.2 U	0.24 U
Carbazole	~	~	0.2 U	0.2 U	0.18 U	0.18 U	0.18 U	0.2 U	0.21 U	0.18 U	0.2 U	0.24 U
Chrysene	1	3.9	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.13 U	0.019 J	0.12 U	0.14 U
Dibenz(a,h)Anthracene	0.33	0.33	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.13 U	0.11 U	0.12 U	0.14 U
Dibenzofuran	7	59	0.2 U	0.2 U	0.18 U	0.18 U	0.18 U	0.2 U	0.21 U	0.18 U	0.2 U	0.24 U
Fluoranthene	100	100	0.12 U	0.12 U	0.023 J	0.11 U	0.11 U	0.12 U	0.13 U	0.045 J	0.12 U	0.14 U
Fluorene	30	100	0.2 U	0.2 U	0.18 U	0.18 U	0.18 U	0.2 U	0.21 U	0.18 U	0.2 U	0.24 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.16 U	0.16 U	0.14 U	0.15 U	0.15 U	0.16 U	0.17 U	0.14 U	0.16 U	0.19 U
Naphthalene	12	100	0.2 U	0.2 U	0.18 U	0.18 U	0.18 U	0.2 U	0.21 U	0.18 U	0.2 U	0.24 U
Phenanthrene	100	100	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.13 U	0.037 J	0.12 U	0.14 U
Phenol	0.33	100	0.2 U	0.2 U	0.18 U	0.18 U	0.18 U	0.2 U	0.21 U	0.18 U	0.2 U	0.24 U
Pyrene	100	100	0.12 U	0.12 U	0.02 J	0.021 J	0.11 U	0.12 U	0.13 U	0.035 J	0.12 U	0.14 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are shaded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP04_072618 is a duplicate sample of RSB13_S1_7-8

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 7
Soil Sample Analytical Results Summary - SVOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RRU SCOs	RSB16_6-8 L1828984-01 7/26/2018 6-8	RSB16_13-14 L1829127-01 7/27/2018 13-14	RSBDUP03_072718 L1829127-08 7/27/2018 13-14	RSB17_7-8 L1829127-02 7/27/2018 7-8	RSB17_8-9 L1829127-03 7/27/2018 8-9	RSB18_4-6 L1829127-06 7/27/2018 4-6	RSB19_7-8 L1829127-04 7/27/2018 7-8	RSB19_8-9 L1829127-05 7/27/2018 8-9	RSB20_4-6 L1829309-01 7/30/2018 4-6
Semivolatile Organic Compounds (mg/kg)											
2-Methylnaphthalene	~	~	1.2	0.24 U	0.24 U	0.033 J	0.25 U	0.26 U	0.25 U	0.25 U	0.26 U
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.28 U	0.29 U	0.29 U	0.29 U	0.3 U	0.31 U	0.3 U	0.3 U	0.31 U
Acenaphthene	20	100	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.17 U
Acenaphthylene	100	100	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.17 U
Anthracene	100	100	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U
Benzo(a)Anthracene	1	1	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U
Benzo(a)Pyrene	1	1	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.17 U
Benzo(b)Fluoranthene	1	1	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U
Benzo(g,h,i)Perylene	100	100	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.17 U
Benzo(k)Fluoranthene	0.8	3.9	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U
Biphenyl (Diphenyl)	~	~	0.45 U	0.46 U	0.46 U	0.46 U	0.48 U	0.48 U	0.48 U	0.47 U	0.49 U
Bis(2-Ethylhexyl) Phthalate	~	~	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U
Carbazole	~	~	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U
Chrysene	1	3.9	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U
Dibenz(a,h)Anthracene	0.33	0.33	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U
Dibenzofuran	7	59	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U
Fluoranthene	100	100	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U
Fluorene	30	100	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.17 U
Naphthalene	12	100	0.89	0.2 U	0.2 U	0.054 J	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U
Phenanthrene	100	100	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U
Phenol	0.33	100	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U
Pyrene	100	100	0.12 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U

- NOTES:**
- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
 - Only analytes with detections are shown in the table.
 - Results exceeding UU SCOs are shaded.
 - Results exceeding RRU SCOs are shaded and bolded.
 - Reporting limits (RL) above the UU SCOs are
 - mg/kg = milligrams per kilogram
 - ~ = no regulatory limit has been established for this analyte.
 - bgs = below grade surface
 - Soil samples were collected at cellar grade.
 - Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
 - Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
 - Soil sample RSDUP04_072618 is a duplicate sample of RSB13_S1_7-8

QUALIFIERS:
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 7
Soil Sample Analytical Results Summary - SVOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RRU SCOs	RSB21_8-9 L1829309-06 7/30/2018 8-9	RSB21_11-12 L1829309-05 7/30/2018 11-12	RSB22_8-9 L1829309-02 7/30/2018 8-9	RSB22_10-12 L1829309-03 7/30/2018 10-12	RSB25_4-5 L1829484-03 7/31/2018 4-5	RSB26_7-8 L1829484-02 7/31/2018 7-8	RSB26_10-11 L1829484-01 7/31/2018 10-11	RSB27_9-10 L1829309-09 7/30/2018 9-10	RSB27_11-12 L1829309-10 7/30/2018 11-12	RSB28_6-7 L1829309-11 7/30/2018 6-7
Semivolatile Organic Compounds (mg/kg)												
2-Methylnaphthalene	~	~	0.034 J	0.28 U	0.26 U	0.28 U	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.04 J
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.3 U	0.34 U	0.31 U	0.33 U	0.29 U	0.3 U	0.3 U	0.3 U	0.29 U	0.28 U
Acenaphthene	20	100	0.17 U	0.19 U	0.17 U	0.18 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.038 J
Acenaphthylene	100	100	0.17 U	0.19 U	0.17 U	0.18 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.12 J
Anthracene	100	100	0.13 U	0.14 U	0.13 U	0.14 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Benzo(a)Anthracene	1	1	0.13 U	0.14 U	0.13 U	0.14 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.43 U
Benzo(a)Pyrene	1	1	0.17 U	0.19 U	0.17 U	0.18 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.45 U
Benzo(b)Fluoranthene	1	1	0.13 U	0.14 U	0.13 U	0.14 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.62 U
Benzo(g,h,i)Perylene	100	100	0.17 U	0.19 U	0.17 U	0.18 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.31 U
Benzo(k)Fluoranthene	0.8	3.9	0.13 U	0.14 U	0.13 U	0.14 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.22 U
Biphenyl (Diphenyl)	~	~	0.48 U	0.53 U	0.5 U	0.52 U	0.46 U	0.48 U	0.48 U	0.47 U	0.47 U	0.44 U
Bis(2-Ethylhexyl) Phthalate	~	~	0.21 U	0.23 U	0.22 U	0.23 U	0.2 U	0.21 U	0.21 U	0.21 U	0.2 U	0.19 U
Carbazole	~	~	0.21 U	0.23 U	0.22 U	0.23 U	0.2 U	0.21 U	0.21 U	0.21 U	0.2 U	0.15 J
Chrysene	1	3.9	0.13 U	0.14 U	0.13 U	0.14 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.56 U
Dibenz(a,h)Anthracene	0.33	0.33	0.13 U	0.14 U	0.13 U	0.14 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.074 J
Dibenzofuran	7	59	0.21 U	0.23 U	0.22 U	0.23 U	0.2 U	0.21 U	0.21 U	0.21 U	0.2 U	0.094 J
Fluoranthene	100	100	0.13 U	0.14 U	0.13 U	0.14 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	1.2 U
Fluorene	30	100	0.21 U	0.23 U	0.22 U	0.23 U	0.2 U	0.21 U	0.21 U	0.21 U	0.2 U	0.097 J
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.17 U	0.19 U	0.17 U	0.18 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.31 U
Naphthalene	12	100	0.06 J	0.23 U	0.22 U	0.23 U	0.2 U	0.062 J	0.21 U	0.21 U	0.2 U	0.063 J
Phenanthrene	100	100	0.13 U	0.14 U	0.055 J	0.14 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	1.2 U
Phenol	0.33	100	0.21 U	0.23 U	0.22 U	0.23 U	0.2 U	0.21 U	0.21 U	0.21 U	0.2 U	0.19 U
Pyrene	100	100	0.13 U	0.14 U	0.13 U	0.14 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	1 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are shaded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade.
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP04_072618 is a duplicate sample of RSB13_S1_7-8

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 7
Soil Sample Analytical Results Summary - SVOCs
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RRU SCOs	RSB29_8-9 L1829484-05 7/31/2018 8-9	RSB29_10-11 L1829484-04 7/31/2018 10-11	RSB30_5-6 L1829932-01 8/2/2018 5-6	RSB31_6-7 L1829793-01 8/1/2018 6-7	RSB32_11-13 L1834771-02 9/4/2018 11-13	RSB33_11-13 L1834771-01 9/4/2018 11-13
Semivolatile Organic Compounds (mg/kg)								
2-Methylnaphthalene	~	~	0.24 U	0.26 U	0.24 U	0.25 U	0.22 U	0.23 U
3 & 4 Methylphenol (m&p Cresol)	0.33	100	0.29 U	0.31 U	0.28 U	0.3 U	0.27 U	0.28 U
Acenaphthene	20	100	0.16 U	0.17 U	0.16 U	0.16 U	0.15 U	0.16 U
Acenaphthylene	100	100	0.16 U	0.17 U	0.16 U	0.16 U	0.15 U	0.16 U
Anthracene	100	100	0.12 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U
Benzo(a)Anthracene	1	1	0.12 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U
Benzo(a)Pyrene	1	1	0.16 U	0.17 U	0.16 U	0.16 U	0.15 U	0.16 U
Benzo(b)Fluoranthene	1	1	0.12 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U
Benzo(g,h,i)Perylene	100	100	0.16 U	0.17 U	0.16 U	0.16 U	0.15 U	0.16 U
Benzo(k)Fluoranthene	0.8	3.9	0.12 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U
Biphenyl (Diphenyl)	~	~	0.46 U	0.49 U	0.45 U	0.47 U	0.42 U	0.44 U
Bis(2-Ethylhexyl) Phthalate	~	~	0.2 U	0.22 U	0.2 U	0.21 U	0.18 U	0.19 U
Carbazole	~	~	0.2 U	0.22 U	0.2 U	0.21 U	0.18 U	0.19 U
Chrysene	1	3.9	0.12 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U
Dibenz(a,h)Anthracene	0.33	0.33	0.12 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U
Dibenzofuran	7	59	0.2 U	0.22 U	0.2 U	0.21 U	0.18 U	0.19 U
Fluoranthene	100	100	0.12 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U
Fluorene	30	100	0.2 U	0.22 U	0.2 U	0.21 U	0.18 U	0.19 U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.16 U	0.17 U	0.16 U	0.16 U	0.15 U	0.16 U
Naphthalene	12	100	0.2 U	0.22 U	0.2 U	0.21 U	0.18 U	0.19 U
Phenanthrene	100	100	0.12 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U
Phenol	0.33	100	0.2 U	0.22 U	0.2 U	0.21 U	0.18 U	0.19 U
Pyrene	100	100	0.12 U	0.13 U	0.12 U	0.12 U	0.11 U	0.12 U

NOTES:

1. Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
2. Only analytes with detections are shown in the table.
3. Results exceeding UU SCOs are shaded.
4. Results exceeding RRU SCOs are shaded and bolded.
5. Reporting limits (RL) above the UU SCOs are
6. mg/kg = milligrams per kilogram
7. ~ = no regulatory limit has been established for this analyte.
8. bgs = below grade surface
9. Soil samples were collected at cellar grade.
10. Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2
11. Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
12. Soil sample RSDUP04_072618 is a duplicate sample of RSB13_S1_7-8

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 8
Soil Sample Analytical Results Summary - Pesticides, Herbicides, PCBs, Metals, and General Chemistry
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC UU	NYSDEC RRU	RSB01_10-11	RSBDUP02_041118	RSB01_1-2	RSB01_6-7	RSB02_0-1	RSB02_6-7	RSB03_0-1	RSB03_7-8	RSB04_10-11	RSB04_1-2
Laboratory ID	SCOs	SCOs	L1812618-03	L1812618-10	L1812618-01	L1812618-02	L1812618-04	L1812618-05	L1812618-06	L1812618-07	L1812210-03	L1812210-02
Sample Date			4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/11/2018	4/9/2018	4/9/2018
Sampling Depth (feet bgs)			10-11	1-2	1-2	6-7	0-1	6-7	0-1	7-8	10-11	1-2
Pesticides (mg/kg)												
Total Pesticides	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Herbicides (mg/kg)												
2,4-D (Dichlorophenoxyacetic Acid)	~	~	0.206 U	0.195 U	0.196 U	0.015 J	0.194 U	0.212 U	0.176 U	0.208 U	0.204 U	0.183 U
Polychlorinated Biphenyls (PCBs) (mg/kg)												
PCB-1248 (Aroclor 1248)	~	~	0.0401 U	0.037 U	0.0387 U	0.0382 U	0.0365 U	0.0408 U	0.0581	0.0401 U	0.0408 U	0.0362 U
PCB-1254 (Aroclor 1254)	~	~	0.0401 U	0.037 U	0.0387 U	0.0382 U	0.00441 J	0.017 J	0.0389	0.00568 J	0.0408 U	0.0306 J
PCB-1260 (Aroclor 1260)	~	~	0.0401 U	0.037 U	0.0387 U	0.0382 U	0.0365 U	0.0237 J	0.023 J	0.0401 U	0.0408 UJ	0.0362 UJ
PCB-1268 (Aroclor 1268)	~	~	0.0401 U	0.037 U	0.0387 U	0.0382 U	0.0365 U	0.0466	0.0342 U	0.0401 U	0.0408 UJ	0.0362 UJ
Polychlorinated Biphenyl (PCBs)	0.1	1	0.0401 U	0.037 U	0.0387 U	0.0382 U	0.00441 J	0.0873 J	0.12 J	0.00568 J	0.0408 U	0.0306 J
Metals (mg/kg)												
Aluminum	~	~	2670	6510	6770	5840	8300	6430	5220	6230	7470	5980
Antimony	~	~	4.81 U	4.62 U	4.55 U	4.74 U	4.56 U	5.01 U	4.26 U	4.76 U	4.86 U	4.37 U
Arsenic	13	16	0.712 J	2.25	0.273 J	0.958	0.383 J	1.22	1.39	0.647 J	2.54	0.865 J
Barium	350	400	7.73	30.2 J	14.5 J	12.4	26.5	18	16.1	13	20.3	
Beryllium	7.2	72	0.039 J	0.212 J	0.164 J	0.123 J	0.255 J	0.17 J	0.128 J	0.209 J	0.311 J	0.236 J
Cadmium	2.5	4.3	0.962 U	0.323 J	0.191 J	0.237 J	0.146 J	0.22 J	0.366 J	0.247 J	0.331 J	0.218 J
Calcium	~	~	314	1280 J	498 J	845	394	756	5130	976	964 J	273 J
Chromium Trivalent	30	180	7.2	8.8 J	18	17	9.6 J	10	8.4 J	9.1	11 J	16 J
Chromium, Hexavalent	1	110	1 U	0.376 J	0.949 U	0.974 U	0.443 J	1.03 U	0.171 J	1.01 U	0.435 J	0.311 J
Chromium, Total	~	~	7.17	9.2 J	17.5 J	17	10.1	10	8.56	9.07	11.9	15.9
Cobalt	~	~	1.52 J	3	2.85	3.46	2.47	3.56	4.34	3.68	5.45	3.2
Copper	50	270	4.75	9.88	4.97	9.59	2.26	9.16	12.8	11.5	18.3	7.29
Iron	~	~	4660	10100	9560	11400	7440	11000	10500	12200	14400	10400
Lead	63	400	3.97 J	57.4 J	7.59 J	5.05	5.03	4.94 J	36.4	11.2	7.96	4.16 J
Magnesium	~	~	805 J	1760 J	1900 J	2080 J	790 J	2230 J	2160 J	2130 J	3460 J	1690 J
Manganese	1600	2000	38.2 J	76.4 J	56.5 J	110 J	37.1 J	97.2 J	177 J	93.4 J	114	141
Mercury	0.18	0.81	0.029 J	0.048 J	0.017 J	0.078	0.018 J	0.081 U	0.02 J	0.081 U	0.078 U	0.029 J
Nickel	30	310	3.54	6.8	8.49	7.46	5.18	7.91	8.05	8.38	14	8.04
Potassium	~	~	214 J	330	353	366	221 J	381	599	328	434	390
Selenium	3.9	180	0.462 J	0.989 J	0.609 J	0.474 J	0.492 J	0.521 J	0.341 J	0.562 J	1.94 U	1.75 U
Sodium	~	~	179 J	122 J	119 J	334	155 J	293	452	320	308	300
Thallium	~	~	1.92 U	1.85 U	1.82 U	1.9 U	1.82 U	2 U	1.7 U	1.9 U	1.94 U	1.75 U
Vanadium	~	~	5.28	9.97	10	10.4	9.2	11	9.43	12.3	13	10.9
Zinc	109	10000	9.78	60.3 J	22.8 J	24.1	15.7	25.6	183	26.7	45.7	18
General Chemistry												
Solids (%)	~	~	79.7	85.2	84.3	82.1	85.8	77.4	93.7	79	80.5	90
Cyanide (mg/kg)	27	27	1.2 UJ	1.1 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.1 UJ	1.2 UJ	1.1 UJ

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are shaded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 8
Soil Sample Analytical Results Summary - Pesticides, Herbicides, PCBs, Metals, and General Chemistry
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC UU	NYSDEC RRU	RSB04_6-7	RSB05_0-1	RSB05_6-7	RSB06_1-2	RSB06_7-8	RSB07_1-2	RSB07_7-8	RSB08_1-2	RSB08_14-15	RSB08_7-8
Laboratory ID	SCOs	SCOs	L1812210-01	L1812435-01	L1812435-02	L1812435-03	L1812435-04	L1812435-05	L1812435-06	L1812435-07	L1812435-09	L1812435-08
Sample Date			4/9/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/10/2018
Sampling Depth (feet bgs)			6-7	0-1	6-7	1-2	7-8	1-2	7-8	1-2	14-15	7-8
Pesticides (mg/kg)												
Total Pesticides	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Herbicides (mg/kg)												
2,4-D (Dichlorophenoxyacetic Acid)	~	~	0.0209 J	0.185 U	0.219 U	0.191 U	0.208 U	0.194 U	0.201 U	0.209 U	0.243 U	0.194 U
Polychlorinated Biphenyls (PCBs) (mg/kg)												
PCB-1248 (Aroclor 1248)	~	~	0.0384 U	0.0357 U	0.0415 U	0.0381 U	0.0405 U	0.0369 U	0.0385 U	0.0414 U	0.0466 U	0.0392 U
PCB-1254 (Aroclor 1254)	~	~	0.0384 U	0.0357 U	0.0415 U	0.0381 U	0.0405 U	0.00629 J	0.0385 U	0.0414 U	0.0466 U	0.0392 U
PCB-1260 (Aroclor 1260)	~	~	0.0384 U	0.0357 U	0.0415 U	0.0381 U	0.0405 U	0.0369 U	0.0385 U	0.0414 U	0.0466 U	0.0392 U
PCB-1268 (Aroclor 1268)	~	~	0.0384 U	0.0357 U	0.0415 U	0.0381 U	0.0405 U	0.0369 U	0.0385 U	0.0414 U	0.0466 U	0.0392 U
Polychlorinated Biphenyl (PCBs)	0.1	1	0.0384 U	0.0357 U	0.0415 U	0.0381 U	0.0405 U	0.00629 J	0.0385 U	0.0414 U	0.0466 U	0.0392 U
Metals (mg/kg)												
Aluminum	~	~	3870	8120	7590	6310	6610	6710	9120	9100	5620	11200
Antimony	~	~	4.66 U	0.594 J	5.24 U	4.52 U	4.85 U	4.56 U	0.504 J	0.652 J	0.546 J	0.484 J
Arsenic	13	16	0.652 J	2.44	1.22	1.25	0.97 U	1.75	3.32	1.18	1.89	1.33
Barium	350	400	9.92	43.8	26.7	39.7	15	52.6	54.6	74	13.2	98
Beryllium	7.2	72	0.158 J	0.413 J	0.294 J	0.262 J	0.223 J	0.274 J	0.428 J	0.385 J	0.244 J	0.304 J
Cadmium	2.5	4.3	0.149 J	0.086 J	1.05 U	0.903 U	0.97 U	0.913 U	0.951 U	0.987 U	1.16 U	0.95 U
Calcium	~	~	607 J	7120 J	962 J	2620 J	1740 J	2720 J	10600 J	6120 J	1210 J	1370 J
Chromium Trivalent	30	180	5.9	13	9.8	12	9.4	19	14	15	13	19
Chromium, Hexavalent	1	110	0.962 UJ	0.896 U	1.06 U	0.92 U	1 U	0.937 U	0.984 U	1.02 U	1.17 U	0.951 U
Chromium, Total	~	~	5.88	13	9.84	11.9	9.38	18.9	13.8	15.1	12.9	18.6
Cobalt	~	~	2.5	7.3	6.25	6.37	2.32	6.07	7.2	11.2	5.47	17.2
Copper	50	270	5.09	15.4	14.6	15	3.07	29	17.2	46.2	13.5	33.5
Iron	~	~	7000	16600	15800	12300	6380	13800	12900	16200	12600	24200
Lead	63	400	21	15.7	6.25	7.29	3.7 J	35.6	52.1	21.3	6.07	22
Magnesium	~	~	1090 J	3150	3270	3210	1780	2900	7800	4190	3250	6510
Manganese	1600	2000	53.8	569 J	175 J	496 J	53.5 J	254 J	109 J	130 J	94.4 J	164 J
Mercury	0.18	0.81	0.075 U	0.071 U	0.085 U	0.037 J	0.037 J	0.046 J	0.29	0.054 J	0.093 U	0.05 J
Nickel	30	310	5.74	22 J	17.7 J	12 J	8.42 J	13.1 J	14.4 J	20.6 J	13.8 J	29.9 J
Potassium	~	~	331	705	354	754	433	1710	419	3680	346	6420
Selenium	3.9	180	1.86 U	1.72 U	2.1 U	1.81 U	0.359 J	1.82 U	1.9 U	1.97 U	2.32 U	1.9 U
Sodium	~	~	251	278	553	109 J	204	147 J	318	144 J	216 J	280
Thallium	~	~	1.86 U	1.72 U	2.1 U	1.81 U	1.94 U	1.82 U	1.9 U	1.97 U	2.32 U	1.9 U
Vanadium	~	~	7.88	15	11.9	16.3	5.94	16.1	17.7	20.1	13.3	27.6
Zinc	109	10000	12	38.6	41.5	27.2	17.6	32.6	38.3	33.5	38.2	53.5
General Chemistry												
Solids (%)	~	~	83.2	89.3	75.7	86.9	80	85.4	81.3	78.4	68.1	84.1
Cyanide (mg/kg)	27	27	1.1 UJ	1.1 UJ	1.2 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.1 UJ	1.2 UJ	1.4 UJ	1.1 UJ

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are shaded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 8
Soil Sample Analytical Results Summary - Pesticides, Herbicides, PCBs, Metals, and General Chemistry
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC UU	NYSDEC RRU	RSB09_1-2	RSB09_7-8	RSB10_1-2	RSB10_9-10	RSBDUP01_040918	RSB11_1-2	RSB11_5-6	RSB11_8-9	RSB12_1-2	RSB12_5-6
Laboratory ID	SCOs	SCOs	L1812618-08	L1812618-09	L1812210-04	L1812210-05	L1812210-12	L1812210-08	L1812210-07	L1812210-06	L1812210-09	L1812210-11
Sample Date			4/11/2018	4/11/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018	4/9/2018
Sampling Depth (feet bgs)			1-2	7-8	1-2	9-10	1-2	1-2	5-6	8-9	1-2	5-6
Pesticides (mg/kg)												
Total Pesticides	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Herbicides (mg/kg)												
2,4-D (Dichlorophenoxyacetic Acid)	~	~	0.184 U	0.187 U	0.185 U	0.214 U	0.184 U	0.194 U	0.205 U	0.204 U	0.188 U	0.214 U
Polychlorinated Biphenyls (PCBs) (mg/kg)												
PCB-1248 (Aroclor 1248)	~	~	0.0358 U	0.0367 U	0.0367 U	0.0416 U	0.036 U	0.0386 U	0.0399 U	0.0405 U	0.0367 U	0.0422 U
PCB-1254 (Aroclor 1254)	~	~	0.0358 U	0.0367 U	0.0367 U	0.0416 U	0.00305 J	0.0386 U	0.0399 U	0.0405 U	0.0367 U	0.0422 U
PCB-1260 (Aroclor 1260)	~	~	0.0358 U	0.0367 U	0.0367 UJ	0.0416 UJ	0.036 UJ	0.0386 UJ	0.0399 UJ	0.0405 U	0.0367 UJ	0.0422 U
PCB-1268 (Aroclor 1268)	~	~	0.0358 U	0.0367 U	0.0367 UJ	0.0416 UJ	0.036 UJ	0.0386 UJ	0.0399 UJ	0.0405 U	0.0367 UJ	0.0422 U
Polychlorinated Biphenyl (PCBs)	0.1	1	0.0358 U	0.0367 U	0.0367 U	0.0416 U	0.00305 J	0.0386 U	0.0399 U	0.0405 U	0.0367 U	0.0422 U
Metals (mg/kg)												
Aluminum	~	~	6960	7170	6320	6900	5290	7310	7380	3930	8080	7300
Antimony	~	~	4.39 U	4.49 U	4.39 U	0.569 J	0.44 J	4.6 U	0.365 J	4.83 U	0.372 J	5.01 U
Arsenic	13	16	1.32	2.1	0.816 J	1.87	1.16	0.469 J	0.44 J	0.763 J	1.36	2.32
Barium	350	400	27.6	33.2	142 J	19.5	19.2 J	15.9	15.2	20.8	14.8	16.8
Beryllium	7.2	72	0.167 J	0.234 J	0.237 J	0.305 J	0.19 J	0.294 J	0.244 J	0.174 J	0.328 J	0.331 J
Cadmium	2.5	4.3	0.255 J	0.305 J	0.36 J	0.356 J	0.095 J	0.276 J	0.244 J	0.261 J	0.301 J	0.12 J
Calcium	~	~	13000	4540	1880 J	1290 J	827 J	345 J	577 J	447 J	252 J	503
Chromium Trivalent	30	180	12	13	9.9	12	8.6 J	10 J	11	7.2	24 J	11 J
Chromium, Hexavalent	1	110	0.893 U	0.913 U	0.894 UJ	1.03 UJ	0.39 J	0.34 J	0.992 UJ	1 UJ	0.262 J	0.862 J
Chromium, Total	~	~	12.2	12.6	9.87	12.4	9.01	10.7	10.6	7.23	24.8	12.3
Cobalt	~	~	4.79	5.16	3.23	7.78	2.74 J	5.28	4.72	5	4.18	6.6 J
Copper	50	270	9.38	13.6	8.14	14.2	5	9.36	11.9	7.61	11.1	11.6
Iron	~	~	12000	13100	9310	14900	7540	13000	11300	8100	15100	13900
Lead	63	400	15.4	19.6	622 J	5.86	9.8 J	5.72	8.12	23	6.06	10.1
Magnesium	~	~	2430 J	2720 J	1830 J	2250 J	1250 J	2540 J	2670 J	1250 J	2140 J	2840
Manganese	1600	2000	183 J	180 J	103	238	81.9	202	94.4	58.3	79.9	122
Mercury	0.18	0.81	0.017 J	0.022 J	0.025 J	0.081 U	0.026 J	0.073 U	0.078 U	0.079 U	0.073 U	0.019 J
Nickel	30	310	10.1	11.7	8.22	15	6.92	10.2	9.63	11.1	9.67	11.3
Potassium	~	~	676	629	365	415	270	530	552	321	431	456
Selenium	3.9	180	0.483 J	0.916 J	1.76 U	2.03 U	1.73 U	1.84 U	1.87 U	1.93 U	1.77 U	2 U
Sodium	~	~	259	231	326	321	268	289	447	252	96.6 J	218
Thallium	~	~	1.76 U	1.8 U	1.76 U	2.03 U	1.73 U	1.84 U	1.87 U	1.93 U	1.77 U	2 U
Vanadium	~	~	12	14.2	10.7	12.9	9.35	12.1	14.1	8.03	15	16.6
Zinc	109	10000	29.8	37.4	48.1 J	33.5	21.2 J	28.1	28.8	23.4	23.6	28.7
General Chemistry												
Solids (%)	~	~	89.6	87.6	89.5	77.4	89.8	85.4	80.6	79.9	87.7	77.7
Cyanide (mg/kg)	27	27	1 UJ	1.1 UJ	1 UJ	1.2 UJ	1 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.1 UJ	1.2 UJ

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
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- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 8
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Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	NYSDEC UU SCOs	NYSDEC RRU SCOs	RSB12_7-8 L1812210-10 4/9/2018 7-8	RSB13_1-2 L1812435-10 4/10/2018 1-2	RSB13_7-8 L1812435-11 4/10/2018 7-8	RSB14_10-11 L1812435-13 4/10/2018 10-11	RSB14_1-2 L1812435-12 4/10/2018 1-2	RSB14_7-8 L1812435-14 4/10/2018 7-8	RSB15_0-1 L1812435-15 4/10/2018 0-1	RSB15_11-12 L1812435-16 4/10/2018 11-12	RSB15_7-8 L1812435-17 4/10/2018 7-8
Pesticides (mg/kg)											
Total Pesticides	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND
Herbicides (mg/kg)											
2,4-D (Dichlorophenoxyacetic Acid)	~	~	0.229 U	0.179 U	0.192 U	0.212 U	0.181 U	0.199 U	0.179 U	0.238 U	0.206 U
Polychlorinated Biphenyls (PCBs) (mg/kg)											
PCB-1248 (Aroclor 1248)	~	~	0.0453 U	0.0354 U	0.0372 U	0.0412 U	0.035 U	0.0395 U	0.0359 U	0.0482 U	0.0404 U
PCB-1254 (Aroclor 1254)	~	~	0.0453 U	0.0354 U	0.0372 U	0.0412 U	0.035 U	0.0395 U	0.0359 U	0.0482 U	0.0404 U
PCB-1260 (Aroclor 1260)	~	~	0.0453 UJ	0.0354 U	0.0372 U	0.0412 U	0.035 U	0.0395 U	0.0359 U	0.0482 U	0.0404 U
PCB-1268 (Aroclor 1268)	~	~	0.0453 UJ	0.0354 U	0.0372 U	0.0412 U	0.035 U	0.0395 U	0.0359 U	0.0482 U	0.0404 U
Polychlorinated Biphenyl (PCBs)	0.1	1	0.0453 U	0.0354 U	0.0372 U	0.0412 U	0.035 U	0.0395 U	0.0359 U	0.0482 U	0.0404 U
Metals (mg/kg)											
Aluminum	~	~	9020	6700	6740	6480	7730	3990	4000	6020	4750
Antimony	~	~	5.34 U	0.593 J	0.402 J	5.15 U	4.25 U	0.485 J	4.14 U	0.533 J	4.87 U
Arsenic	13	16	1 J	1.87	1.86	1.58	1.55	1.16	0.895	1.59	1.1
Barium	350	400	22.2	20.6	25.8	15	25.1	11	17.9	11	64.4
Beryllium	7.2	72	0.277 J	0.244 J	0.289 J	0.196 J	0.238 J	0.119 J	0.166 J	0.25 J	0.224 J
Cadmium	2.5	4.3	0.331 J	0.113 J	0.934 U	1.03 U	0.851 U	0.915 U	0.829 U	1.13 U	0.282 J
Calcium	~	~	582 J	3300 J	808 J	1100 J	1190 J	309 J	1390 J	1220 J	388 J
Chromium Trivalent	30	180	10 J	10	11	14	18	6.9	5.9 J	10	7.9
Chromium, Hexavalent	1	110	0.235 J	0.881 U	0.934 U	1.04 U	0.877 U	0.965 U	0.184 J	1.17 U	0.995 U
Chromium, Total	~	~	10.4	10.4	10.8	14.5	18	6.88	6.11	10.4	7.87
Cobalt	~	~	5.56	5.54	4.07	5.62	2.65	3.56	1.75	6.23	2.09
Copper	50	270	14	13.1	7.97	17.8	4.98	4.18	3.16	13.4	8
Iron	~	~	14700	12800	11800	11800	10100	8060	6370	13300	8120
Lead	63	400	8.79	13	7.96	6.8	5.56	2.84 J	4.33	5.64 J	2.96 J
Magnesium	~	~	3610 J	3660	1700	2850	1020	1340	1020	3260	811
Manganese	1600	2000	144	187 J	84.9 J	101 J	48.1 J	66 J	57.5 J	88.9 J	2080 J
Mercury	0.18	0.81	0.088 U	0.015 J	0.03 J	0.083 U	0.041 J	0.076 U	0.018 J	0.093 U	0.079 U
Nickel	30	310	13.4	12.6 J	8.82 J	12.2 J	8.4 J	6.08 J	4.77 J	14 J	24 J
Potassium	~	~	447	444	379	366	347	304	308	414	263
Selenium	3.9	180	2.13 U	1.74 U	1.87 U	2.06 U	0.306 J	1.83 U	1.66 U	2.27 U	1.95 U
Sodium	~	~	300	94.9 J	130 J	290	174	224	114 J	425	166 J
Thallium	~	~	2.13 U	1.74 U	1.87 U	2.06 U	1.7 U	1.83 U	1.66 U	2.27 U	2.11
Vanadium	~	~	13.6	11.4	13	12.8	12.8	7.48	7.18	11.8	6.76
Zinc	109	10000	39.6	65.7	21.5	43.4	12.4	15.4	10.5	38.2	17.6
General Chemistry											
Solids (%)	~	~	72.2	90.8	85.6	77.2	91.2	82.9	92.6	68.2	80.4
Cyanide (mg/kg)	27	27	1.3 UJ	1.1 UJ	1.1 UJ	1.2 UJ	1 UJ	0.35 J	1 UJ	1.4 UJ	1.2 U

NOTES:

- Soil sample analytical results are compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted Use Restricted-Residential (RRU) SCOs.
- Only analytes with detections are shown in the table.
- Results exceeding UU SCOs are shaded.
- Results exceeding RRU SCOs are shaded and bolded.
- Reporting limits (RL) above the UU SCOs are italicized.
- mg/kg = milligrams per kilogram
- ~ = no regulatory limit has been established for this analyte.
- bgs = below grade surface
- Soil samples were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Soil sample RSDUP02_041118 is a duplicate sample of RSB01_1-2
- Soil sample RSDUP01_040918 is a duplicate sample of RSB10_1-2

QUALIFIERS:

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.

Table 9
Soil Sample Analytical Results Summary - PFAS and 1,4-Dioxane
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	RSB03A_0-1	RSB03A_5-6	RSB05A_0-1	RSB05A_5-6	RSB06A_1-2	RSB06A_6-7	RSB07A_2-3	RSB07A_5-6	RSB08A_0-1	RSB08A_7-8	RSB09A_1-2	DUP01_082619	RSB09_6-7	RSB14A_2-3	RSB14A_5-6	RSB15A_3-4	RSB15A_5-6																	
Laboratory Sample ID	L1938564-16	L1938564-17	L1938564-14	L1938564-15	L1938564-08	L1938564-09	L1938564-06	L1938564-07	L1938564-04	L1938564-05	L1938564-02	L1938564-01	L1938564-02	L1938564-12	L1938564-13	L1938564-10	L1938564-11																	
Sample Date	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019	8/26/2019																	
Sample Depth (feet bgs)	0-1	5-6	0-1	5-6	1-2	6-7	2-3	5-6	0-1	7-8	1-2	1-2	6-7	2-3	5-6	3-4	5-6																	
1,4 Dioxane by 8270D-SIM (µg/kg)																																		
1,4-Dioxane	8.82	U	8.61	U	8.08	U	9.16	U	8.85	U	8.08	U	8.85	U	9.34	U	10.7	U	8.29	U	9.74	U	9.4	U	8.81	U	9.02	U	10	U	8.24	U	7.85	U
General Chemistry (%)																																		
Solids, Total	84.4		80		91.9		75.4		83.2		84.7		82		77.4		63.5		81.3		74.9		79.5		78.6		82.9		76.6		91.7		86	
Per- and polyfluoroalkyl Substances (PFAS) (µg/kg)																																		
Perfluorobutanoic Acid (PFBA)	0.113	U (1.11)	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.002	U	1.06	U	1.28	U	1.02	UJ	1.11	U
Perfluoropentanoic Acid (PFPeA)	0.149	J	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorobutanesulfonic Acid (PFBS)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.002	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorohexanoic Acid (PFHxA)	0.199	J	0.06	J	0.954	U	1.17	U	1.13	U	0.068	J	0.066	J	1.12	U	0.082	J	1.07	UJ	0.067	J	1.12	U	0.0006	U	0.061	J	0.087	J	1.02	U	1.11	U
Perfluoroheptanoic Acid (PFHpA)	0.092	J	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	0.059	J	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorohexanesulfonic Acid (PFHxS)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	U	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorooctanoic Acid (PFOA)	0.202	J	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluoroheptanesulfonic Acid (PFHpS)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorononanoic Acid (PFNA)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorooctanesulfonic Acid (PFOS)	0.377	J	0.162	J	0.954	U	1.17	U	1.13	U	1.04	U	0.237	J	0.149	J	1.47	U	0.163	J	1.19	U	1.12	U	0.0006	U	1.06	U	0.198	J	1.02	J	0.178	J
Perfluorodecanoic Acid (PFDA)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	UJ	1.04	UJ	1.15	UJ	1.12	UJ	1.47	UJ	1.07	UJ	1.19	UJ	1.12	UJ	0.002	U	1.06	U	1.28	U	1.02	U	1.11	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.002	U	1.06	U	1.28	U	1.02	UJ	1.11	U
Perfluoroundecanoic Acid (PFUnA)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	U	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorodecanesulfonic Acid (PFDS)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorooctanesulfonamide (FOSA)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	U	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	10.2	R	1.11	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.114	J	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.002	U	1.06	U	1.28	U	0.11	J	1.11	U
Perfluorododecanoic Acid (PFDoA)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	UJ	1.19	U	1.12	U	0.002	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorotridecanoic Acid (PFTTrDA)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	U	1.19	U	1.12	U	0.0006	U	1.06	U	1.28	U	1.02	U	1.11	U
Perfluorotetradecanoic Acid (PFTA)	1.11	U	1.11	U	0.954	U	1.17	U	1.13	U	1.04	U	1.15	U	1.12	U	1.47	U	1.07	U	1.19	U	1.12	U	0.0006	U	1.06	U	0.069	J	1.02	U	1.11	U
PFOA/PFOS, Total	0.579	J	0.162	J	0.954	U	1.17	U	1.13	U	1.04	U	0.237	J	0.149	J	1.47	U	0.163	J	1.19	U	1.12	U	0	U	1.06	U	0.198	J	1.02	U	0.178	J

- NOTES:**
1. µg/kg = micrograms per kilogram
2. bgs = below grade surface
3. Soil sample RSDUP01_082619 is a duplicate sample of RSB09A_1-2
4. RSB09A_6-7 was analyzed for PFAS via Total Oxidizable Precursor Assay

- QUALIFIERS:**
R – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
UJ – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table 10
Groundwater Sample Analytical Results Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date	NYSDEC TOGS SGVs	RMW01_041818 L1813851-01 4/19/2018	RMW02_041818 L1813566-01 4/18/2018	RGWDUP01_041818 L1813566-04 4/18/2018	RMW03_041818 L1813566-02 4/18/2018	RMW04_041818 L1813566-03 4/18/2018	RMW05_041818 L1813851-02 4/19/2018	RMW06_041818 L1813851-03 4/19/2018	RMW07_041818 L1813851-04 4/19/2018	RMW08_041818 L1813851-05 4/19/2018	RMW09_041818 L1813851-06 4/19/2018	RMW16_080718 L1830626-02 8/7/2018	RMW18_080718 L1830626-01 8/7/2018	RGWDUP02_080718 L1830626-05 8/7/2018	RMW28_080718 L1830626-04 8/7/2018	RMW30_080718 L1830626-03 8/7/2018	MW32_091218 L1836205-01 9/12/2018	MW33_091218 L1836205-02 9/12/2018									
Volatiles Organic Compounds (µg/L)																											
1,2,4,5-Tetramethylbenzene	5	21	3	1.4	J	38	88	2	U	2	U	2	U	27	5.3	6.3	2	U	2	U	2	U					
1,2,4-Trimethylbenzene	5	570	32	J	11	J	630	96	2.5	U	1.9	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U			
1,2-Dichloroethane	0.6	5	U	0.5	U	0.5	U	5	U	1.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U		
1,2-Dichloropropane	1	3.8	J	1	U	1	U	70	U	2.5	U	1	U	1	U	70	U	1	U	1	U	1	U	1	U		
1,3,5-Trimethylbenzene (Mesitylene)	5	180	J	26	J	9.6	J	200	J	2.5	U	2.5	U	2.5	U	220	J	16	J	19	J	2.5	U	2.5	U		
1,4-Diethyl Benzene	~	52	U	2	U	2	U	20	U	250	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U		
4-Ethyltoluene	~	440	U	46	U	17	U	430	U	29	U	2	U	2	U	390	U	18	U	22	U	2	U	2	U		
Acetone	50	37	J	15	U	17	U	28	J	12	U	5	U	5	U	110	J	18	J	29	J	9.1	U	7	U		
Acrylonitrile	5	260	J	36	J	16	J	50	U	12	U	5	U	5	U	50	U	5	U	5	U	5	U	5	U		
Benzene	1	26	U	0.5	U	0.5	U	5	U	0.45	J	0.5	U	0.5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U		
Bromomethane	5	25	U	2.5	UJ	2.5	UJ	25	UJ	2.5	U	2.5	U	2.5	U	25	U	2.5	U	2.5	U	2.5	U	2.5	U		
Chloroform	7	25	U	2.5	U	2.5	U	25	U	13	J	2.5	U	2.5	U	25	U	2.5	U	2.5	U	2.5	U	2.5	U		
Cymene	5	25	U	0.76	J	2.5	U	25	U	7.4	J	2.5	U	2.5	U	25	U	0.72	J	1.2	J	2.5	U	2.5	U		
Ethylbenzene	5	380	J	18	J	5.4	J	43	J	7.4	J	2.5	U	2.5	U	16	J	2.5	U	2.5	U	2.5	U	2.5	U		
Isopropylbenzene (Cumene)	5	30	U	5.5	U	2.2	J	21	J	4.3	J	2.5	U	2.5	U	31	J	5.4	J	7.3	J	2.5	U	2.5	U		
m,p-Xylene	5	1600	J	58	J	29	J	320	J	23	J	2.5	U	2.5	U	140	J	2.5	U	2.5	U	2.5	U	2.5	U		
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	~	50	U	5	U	5	U	50	U	4.8	J	5	U	5	U	50	U	5	U	5	U	5	U	5	U		
Naphthalene	10	120	J	8.9	J	3.2	J	73	J	7.8	J	2.5	U	2.5	U	25	J	2.5	UJ	2.5	U	2.5	U	2.5	U		
n-Butylbenzene	5	25	U	1.6	J	0.86	J	17	J	11	J	2.5	U	2.5	U	25	U	0.94	J	0.94	J	2.5	U	2.5	U		
n-Propylbenzene	5	72	J	8.6	J	3	J	58	J	17	J	2.5	U	2.5	U	80	J	8	J	11	J	2.5	U	2.5	U		
o-Xylene (1,2-Dimethylbenzene)	5	620	J	6.5	J	4.2	J	100	J	14	J	2.5	U	2.5	U	36	J	2.5	U	2.5	U	2.5	U	2.5	U		
Sec-Butylbenzene	5	25	U	2.5	U	2.5	U	25	U	16	J	2.5	U	2.5	U	7.8	J	1	J	1.4	J	2.5	U	2.5	U		
Tetrachloroethylene (PCE)	5	5	UJ	0.5	U	0.5	U	5	U	1.2	U	0.5	U	0.5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U		
Toluene	5	11	J	2.5	U	2.5	U	25	U	2.4	J	2.5	U	2.5	U	25	U	2.5	U	2.5	U	2.5	U	2.5	U		
Total Xylenes	5	2200	J	65	J	33	J	420	J	37	J	2.5	U	2.5	U	180	J	2.5	U	2.5	U	2.5	U	2.5	U		
Semivolatiles Organic Compounds (µg/L)																											
1,4-Dioxane (P-Dioxane)	~	0.151	U	0.41	U	0.334	U	0.193	U	0.569	U	0.142	U	0.133	J	0.144	U	0.147	U	0.109	J	NA	NA	NA	NA	NA	
2-Methylnaphthalene	~	12	U	0.7	U	1.1	U	16	U	6.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	8.5	U	0.05	J	0.1	U
Acenaphthene	20	0.1	U	0.1	U	0.1	U	0.1	U	0.07	J	0.1	U	0.1	U	0.1	U	0.06	J	0.1	U	0.1	U	0.1	U	0.1	U
Acenaphthylene	~	0.1	U	0.1	U	0.1	U	0.1	U	0.13	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Anthracene	50	0.1	U	0.1	U	0.1	U	0.04	J	0.08	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Benzo(a)Anthracene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	0.04	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Benzo(a)Pyrene	0	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Benzo(b)Fluoranthene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	0.04	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Benzo(g,h,i)Perylene	~	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Benzo(k)Fluoranthene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Benzoic Acid	~	50	U	50	UJ	49	UJ	50	UJ	50	UJ	50	U	48	U	50	U	12	J	50	U	50	U	50	U	7.4	J
Bis(2-Ethylhexyl) Phthalate	5	4.4	U	3	U	2.9	U	2.8	J	4.8	U	3.9	U	4.1	U	4.2	U	4.3	U	4.1	U	3	U	3	U	3	U
Carbazole	~	2	U	2	U	2	U	2	U	0.7	J	2	U	1.9	U	2	U	2	U	2	U	2	U	2	U	2	U
Chrysene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	0.05	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Fluoranthene	50	0.1	U	0.1	U	0.1	U	0.1	U	0.12	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Fluorene	50	0.04	J	0.1	U	0.1	U	0.1	U	0.18	U	0.1	U	0.1	U	0.1	U	0.06	J	0.1	U	0.1	U	0.1	U	0.1	U
Indeno(1,2,3-c,d)Pyrene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Naphthalene	10	68	J	2.2	J	4.1	J	47	J	4.6	J	0.04	J	0.18	J	0.05	J	0.07	J	0.07	J	20	J	0.24	J	0.28	J
Pentachlorophenol	1	0.8	U	0.8	U	0.78	U	0.8	R	0.76	U	0.8	U	0.77	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Phenanthrene	50	0.05	J	0.1	U	0.1	U	0.16	U	0.36	U	0.02	J	0.1	U	0.02	J	0.1	U	0.04	J	0.05	J	0.1	U	0.07	J
Pyrene	50	0.1	U	0.1	U	0.1	U	0.05	J	0.14	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Pesticides (µg/L)																											
4,4'-DDT	0.2	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
Herbicides (µg/L)																											
Total Herbicides	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Polychlorinated Biphenyl (PCBs) (µg/L)																											
Total PCBs	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

NOTES:

- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) and guidance values for drinking water (class GA) (collectively referred to as the standards and guidance values [SGVs]).
- Only analytical results with detections are shown in the table.
- Results exceeding SGVs are highlighted and in bold.
- Reporting Limits (RL) above the SGVs are italicized.
- Sample RGWDUP01_041818 is a duplicate sample of RMW02_041818.
- Sample RGWDUP02_080718 is a duplicate sample of RMW18_080718.
- ~ = No regulatory limit has been established for this analyte.
- µg/L = micrograms per liter
- All groundwater samples, except MW32_091318 and MW33_091318, were collected at cellar grade, which is about 14 feet below sidewalk grade.

QUALIFIERS:

- J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.
- UJ = The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Table 10
Groundwater Sample Analytical Results Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID Laboratory ID Sample Date	NYSDEC TOGS SGVs	RMW01_041818 L1813851-01 4/19/2018	RMW02_041818 L1813566-01 4/18/2018	RGWDUP01_041818 L1813566-04 4/18/2018	RMW03_041818 L1813566-02 4/18/2018	RMW04_041818 L1813566-03 4/18/2018	RMW05_041818 L1813851-02 4/19/2018	RMW06_041818 L1813851-03 4/19/2018	RMW07_041818 L1813851-04 4/19/2018	RMW08_041818 L1813851-05 4/19/2018	RMW09_041818 L1813851-06 4/19/2018	RMW16_080718 L1830626-02 8/7/2018	RMW18_080718 L1830626-01 8/7/2018	RGWDUP02_080718 L1830626-05 8/7/2018	RMW28_080718 L1830626-04 8/7/2018	RMW30_080718 L1830626-03 8/7/2018	MW32_091218 L1836205-01 9/12/2018	MW33_091218 L1836205-02 9/12/2018
Total Metals (µg/L)																		
Aluminum	~	7040 J	58600 J	28500 J	4950	5680	7490 J	3040 J	429 J	105 J	41.7 J	NA	NA	NA	NA	NA	NA	NA
Antimony	3	4 U	4 U	3.11 J	4 UJ	3.2 J	4 U	4 U	4 U	4 J	4 U	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	8.99	55.53	51.84	4.87	3.01	8.22	1.74	0.98	0.43 J	0.26 J	NA	NA	NA	NA	NA	NA	NA
Barium	1000	149.3	236.7 J	142.4 J	53	89.37	276.8	224.7	278.9	277.2	118.6	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	0.51	4.18	1.59 J	0.28 J	0.35 J	0.41 J	0.14 J	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	0.13 J	1.17 J	0.68 J	0.08 J	0.32	0.46	0.1 J	0.2 U	0.2 U	0.08 J	NA	NA	NA	NA	NA	NA	NA
Calcium	~	144000	151000	133000	81900	66900	324000	148000	150000	203000	78900	NA	NA	NA	NA	NA	NA	NA
Chromium III	~	16	220	110	11	15	14	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	NA	NA
Chromium, Total	50	15.64	220 J	113.6 J	10.68	14.73	14.55	6.76	2.78	0.97 J	0.68 J	NA	NA	NA	NA	NA	NA	NA
Cobalt	~	24.76	80.41 J	22.81 J	7.94	6.58	14.36	4.86	1.51	0.63	0.23 J	NA	NA	NA	NA	NA	NA	NA
Copper	200	21.94	246.7	108.6 J	16.12 J	29.24 J	43.87	8.59	4.76	0.63 J	1.71	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	5 UJ	5 U	5 U	5 U	2 J	5 UJ	3 J	4 J	5 UJ	5 UJ	NA	NA	NA	NA	NA	NA	NA
Iron	300	20600	174000	70700 J	13000	10100	28100	8030	1960	4660	76.9	NA	NA	NA	NA	NA	NA	NA
Lead	25	21.61	171.9 J	50.49 J	10.51	27.5	18.75	5	1.21	1.19	0.9 J	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000	17700	49900 J	33500 J	13000	7120	62900	47800	34600	50500	12100	NA	NA	NA	NA	NA	NA	NA
Manganese	300	658.2	2276 J	874 J	289.4	233.6	4309	5484	1402	1426	7.4	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	0.2 U	0.07 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA
Nickel	100	18.57	136.4	59.1 J	11.35	11.27	23.99	6.75	4.17	0.68 J	0.86 J	NA	NA	NA	NA	NA	NA	NA
Potassium	~	17100	15800	14200	11200	13100	28300	12300	17300	52400	12600	NA	NA	NA	NA	NA	NA	NA
Selenium	10	2.25 J	13.1 J	6.48 J	5 UJ	5 UJ	5.35	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
Silver	50	0.4 U	0.3 J	0.21 J	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	626000	732000	716000	372000	214000	1590000	395000	674000	282000	508000	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	0.5 U	0.32 J	0.2 J	0.5 U	0.5 U	0.5 U	0.25 J	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA
Vanadium	~	15.93	169 J	80.62 J	12.22 J	13.56	15.17	5.68	5	2.08 J	5 U	NA	NA	NA	NA	NA	NA	NA
Zinc	2000	39.63	408.3 J	197.1 J	37.1 J	65.12 J	49.49	13.67	10 U	10 U	6.57 J	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)																		
Aluminum	~	17.7 U	10 U	10 U	2870	20.4	10 U	31.4	14.8 U	10 U	19.4 U	NA	NA	NA	NA	NA	NA	NA
Antimony	3	0.99 J	4 U	4 U	4 U	4 U	0.49 J	2.83 J	0.59 J	4 U	2.39 J	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	1.35	1.71	1.7	3.28	1.07	2.05	0.6	0.92	0.31 J	0.39 J	NA	NA	NA	NA	NA	NA	NA
Barium	1000	125.4	85.84	76.44	61.68	31.19	241.7	215.4	275.8	288.2	62.92	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	0.5 U	0.5 U	0.5 U	0.15 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	0.2 U	0.19 J	0.15 J	0.07 J	0.27	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA
Calcium	~	141000	151000	135000	107000	66700	340000	154000	154000	202000	82800	NA	NA	NA	NA	NA	NA	NA
Chromium, Total	50	0.21 J	1 U	1 U	6.16	1 U	0.33 J	0.87 J	1.15	0.83 J	0.61 J	NA	NA	NA	NA	NA	NA	NA
Cobalt	~	4.29	2.61	2.38	4.86	3.12	4.34	2.16	1.25	0.53	0.74	NA	NA	NA	NA	NA	NA	NA
Copper	200	1 U	1 U	1 U	9.51	5.52	0.56 J	1.18	3.44	1 U	2.16	NA	NA	NA	NA	NA	NA	NA
Iron	300	605	35.7 J	25 J	7090	32.5 J	749	1880	1020	4990	50 U	NA	NA	NA	NA	NA	NA	NA
Lead	25	0.68 J	1 U	1 U	5.97	1.38	5 U	1 U	1 U	1 U	1.36	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000	14800	27400	24600	15400	6120	59400	48700	34700	52700	12600	NA	NA	NA	NA	NA	NA	NA
Manganese	300	352.4	511.5 J	438 J	286.6 J	100.8 J	3976	5559	1409	1462	95.96	NA	NA	NA	NA	NA	NA	NA
Nickel	100	2.42	2.64	2.22	7.58	3.48	5.76	1.55 J	3.4	2 U	1.08 J	NA	NA	NA	NA	NA	NA	NA
Potassium	~	17000	14500	13000	13900	13500	29100	12700	17600	51500	12800	NA	NA	NA	NA	NA	NA	NA
Selenium	10	5 U	5 U	5 U	5 U	5 U	3.82 J	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	592000	708000 J	710000 J	456000 J	238000 J	1660000	398000	665000	317000	550000	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	0.17 J	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.17 J	0.5 U	0.5 U	0.15 J	NA	NA	NA	NA	NA	NA	NA
Vanadium	~	5 U	5 U	5 U	6.82	5 U	5 U	5 U	5 U	1.94 J	5 U	NA	NA	NA	NA	NA	NA	NA
Zinc	2000	10 U	10 U	10 U	21.83	8.45 J	10 U	10 U	4.69 J	10 U	3.65 J	NA	NA	NA	NA	NA	NA	NA

NOTES:

- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) and guidance values for drinking water (class GA) (collectively referred to as the standards and guidance values (SGVs)).
- Only analytical results with detections are shown in the table.
- Results exceeding SGVs are highlighted and in bold.
- Reporting Limits (RL) above the SGVs are italicized.
- Sample RGWDUP01_041818 is a duplicate sample of RMW02_041818.
- Sample RGWDUP02_080718 is a duplicate sample of RMW18_080718.
- ~ = No regulatory limit has been established for this analyte.
- µg/L = micrograms per liter
- All groundwater samples, except MW32_091318 and MW33_091318, were collected at cellar grade, which is about 14 feet below sidewalk grade.

QUALIFIERS:

- J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.
- UJ = The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Table 11
 Groundwater Sample Analytical Results Summary - PFAS (21-compound list)
 Remedial Investigation Report
 4650 Broadway
 New York, New York
 Langan Project No. 170505501
 BCP Site No. C231123

Sample ID Laboratory ID Sample Date	USEPA Health Advisory Level	RMW01_041918 L1813851-01 4/19/2018	RGWDUP01_041818 L1813566-04 4/18/2018	RMW02_041818 L1813566-01 4/18/2018	RMW03_041818 L1813566-02 4/18/2018	RMW04_041818 L1813566-03 4/18/2018	RMW05_041918 L1813851-02 4/19/2018	RMW06_041918 L1813851-03 4/19/2018	RMW07_041918 L1813851-04 4/19/2018	RMW08_041918 L1813851-05 4/19/2018	RMW09_041918 L1813851-06 4/19/2018
Per- and polyfluoroalkyl Substances (PFAS) (µg/L)											
EtFOSAA	~	0.00101 J	0.00172 U	0.00208 U	0.00238 U	0.00113 J	0.00192 U	0.00217 U	0.002 U	0.00217 U	0.00227 U
MeFOSAA	~	0.000507 J	0.00172 U	0.00208 U	0.00238 U	0.0025 U	0.00192 U	0.00217 U	0.000272 J	0.00217 U	0.00227 U
Perfluorobutanesulfonic Acid	~	0.00983	0.00732	0.00773	0.0153	0.0016 J	0.00555	0.00142 J	0.00407	0.0125	0.00427
Perfluorobutanoic acid	~	0.0224	0.0129	0.014	0.0444	0.0141	0.00791	0.00442	0.0242	0.0351 J	0.0295
Perfluorodecane Sulfonate	~	0.000359 J	0.00172 U	0.00208 U	0.00238 U	0.0025 U	0.00192 U	0.00217 U	0.002 U	0.00217 U	0.00227 U
Perfluorodecanoic acid	~	0.000344 J	0.000366 J	0.000392 J	0.000533 J	0.000875 J	0.00192 U	0.00217 U	0.002 U	0.0005 J	0.00227 U
Perfluorododecanoic Acid	~	0.000781 J	0.00172 U	0.00208 U	0.00238 U	0.0025 U	0.00192 U	0.00217 U	0.002 U	0.00217 U	0.00227 U
Perfluoroheptane sulfonate	~	0.000696 J	0.000548 J	0.000479 J	0.00214 J	0.000735 J	0.00192 U	0.000565 J	0.002 U	0.00172 J	0.00227 U
Perfluoroheptanoic acid	~	0.0113	0.00775	0.00817	0.0561	0.00642	0.00547	0.00127 J	0.0284	0.042	0.00998
Perfluorohexanesulfonic Acid	~	0.00708	0.00527	0.00562	0.0258	0.00174 J	0.00415	0.00548	0.0303	0.0139	0.0025
Perfluorohexanoic Acid	~	0.0247	0.0159	0.0175	0.076	0.0103	0.00768	0.0016 J	0.0499	0.0558	0.0222
Perfluorononanoic Acid	~	0.0011 J	0.000966 J	0.000971 J	0.00343	0.00726	0.00192 U	0.00217 U	0.00254	0.00284	0.00133 J
Perfluorooctane Sulfonamide (PFOSA)	~	0.000341 J	0.000234 J	0.00208 U	0.00238 U	0.0025 U	0.00192 UJ	0.00217 UJ	0.002 UJ	0.00217 U	0.00227 UJ
Perfluorooctanesulfonic Acid	0.07	0.0158	0.017	0.0161	0.0315	0.0183	0.00192 U	0.00355	0.0193	0.025	0.0154
Perfluorooctanoic Acid	0.07	0.0415	0.0197	0.0218	0.169	0.0257	0.0173	0.0066	0.0903	0.125	0.0202
Perfluoropentanoic Acid	~	0.0378	0.0246	0.0269	0.0876	0.0118	0.00944	0.00225	0.0573	0.0664	0.036
Perfluorotetradecanoic Acid	~	0.000685 J	0.00172 U	0.00208 U	0.00238 U	0.0025 U	0.00192 U	0.00217 U	0.000148 J	0.00217 U	0.000223 J
Perfluorotridecanoic Acid	~	0.000718 J	0.00172 U	0.00208 U	0.00238 U	0.0025 U	0.00192 U	0.00217 U	0.000172 J	0.00217 U	0.000154 J
Perfluoroundecanoic Acid	~	0.00057 J	0.00172 U	0.00208 U	0.00238 U	0.0025 U	0.00192 U	0.00217 U	0.002 U	0.00217 U	0.00227 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	~	0.000341 J	0.00172 U	0.00208 U	0.000867 J	0.0025 U	0.00192 U	0.00217 U	0.00418 J	0.000974 J	0.00227 U

NOTES:

- Regulatory criteria do not exist for perfluorinated chemicals in New York. Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) are compared to the United States Environmental Protection Agency (USEPA) health advisory level of 70 parts per trillion.
- Only analytical results with detections are shown in the table.
- Results exceeding NYSDEC TOGS are shaded and bold.
- Sample RGWDUP01_041818 is a duplicate sample of RMW02_041818.
- ~ = No regulatory limit has been established for this analyte.
- µg/L = micrograms per liter
- Groundwater samples were collected at cellar grade, which is about 14 feet below sidewalk grade.

QUALIFIERS:

J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.
 U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Table 12
Soil Vapor Sample Analytical Results Summary
Remedial Investigation Report
4650 Broadway
New York, New York
Langan Project No. 170505501
BCP Site No. C231123

Sample ID	AA01_040918	RSV01_040918	RSV02_041018	RSV03_041018	RSV04_041118	RSV05_040918	RSV06_041118	RSV07_041118	RSV08_041118
Laboratory ID	L1812215-02	L1812215-03	L1812404-02	L1812404-01	L1812657-03	L1812215-01	L1812657-04	L1812657-01	L1812657-02
Sample Date	4/9/2018	4/9/2018	4/10/2018	4/10/2018	4/11/2018	4/9/2018	4/11/2018	4/11/2018	4/11/2018
Volatile Organic Compounds (VOCs) ($\mu\text{g}/\text{m}^3$)									
1,1,1-Trichloroethane	1.09 U	1.09 U	5.46 U	0.682	5.46 U	5.46 U	0.546	1.09 U	10.9 U
1,2,4-Trimethylbenzene	12.1	11	10.7	19.1	14.7	10.2	10.5	4.44	17.3
1,3,5-Trimethylbenzene (Mesitylene)	3.61	3.21	4.92 U	6.29	5.51	4.92 U	4.92 U	1.05	9.83 U
1,3-Butadiene	2.74	0.456	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	0.538	4.42 U
2,2,4-Trimethylpentane	12.5	6.31	4.67 U	4.67 U	4.67 U	4.67 U	4.67 U	3.43	9.34 U
4-Ethyltoluene	3.42	2.8	4.92 U	4.92	4.92 U	4.92 U	4.92 U	1.28	9.83 U
Acetone	27.1	43.9	68.9	115	74.4	16.1	11.9 U	81.7	126
Benzene	13.7	7.44	3.19 U	3.19 U	3.19 U	3.19 U	3.19 U	11.1	6.39 U
Carbon Disulfide	0.623 U	6.85	4.55	3.11 U	4.17	3.11 U	3.11 U	3.95	6.23 U
Chloroform	0.977 U	0.977 U	4.88 U	179	4.88 U	4.88 U	4.88 U	3.97	9.77 U
Chloromethane	1.12	0.434	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	0.413 U	4.13 U
Cyclohexane	2.43	2.98	3.44 U	3.44 U	3.44 U	3.44 U	3.44 U	1.23	6.88 U
Dichlorodifluoromethane	1.76 J	1.97 J	4.94 UJ	4.94 UJ	4.94 UJ	4.94 UJ	4.94 UJ	1.79 J	9.89 UJ
Ethanol	36.4	98	47.1 U	77.3	47.1 U	47.1 U	47.1 U	55	94.2 U
Ethylbenzene	7.17	8.51	4.34 U	4.39	4.34 U	4.34 U	4.34 U	4	8.69 U
Isopropanol	1.23 UJ	20.5 J	6.15 UJ	6.15 UJ	6.15 UJ	6.15 UJ	6.15 UJ	6.46 J	12.3 UJ
M,P-Xylene	29	35.6	9.9	18.2	16.9	14	9.73	15.5	23.1
Methyl Ethyl Ketone (2-Butanone)	1.47 U	4.45	7.37 U	7.37 U	7.37 U	7.37 U	7.37 U	3.69	14.7 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.05 U	2.63	10.2 U	10.2 U	10.2 U	10.2 U	10.2 U	2.05 U	20.5 U
Methylene Chloride	1.74 U	5.77	8.69 U	8.69 U	8.69 U	8.69 U	8.69 U	6.53	17.4 U
n-Heptane	5.94	7.34	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	5.66	8.57
n-Hexane	7.47	4.86	3.52 U	3.52 U	3.52 U	3.52 U	3.52 U	3.74	7.05 U
o-Xylene (1,2-Dimethylbenzene)	10.3	12.8	5.82	9.9	9.73	9.56	6.08	5.34	12
Styrene	0.911	1.47	4.26 U	4.26 U	4.26 U	4.26 U	4.26 U	0.852 U	8.52 U
Tert-Butyl Alcohol	1.52 U	2.34	7.58 U	12.2	7.58 U	7.58 U	7.58 U	2.94	15.2 U
Tert-Butyl Methyl Ether	0.721 U	0.721 U	3.61 U	3.61 U	3.61 U	3.61 U	3.61 U	1.1	7.21 U
Tetrachloroethylene (PCE)	1.36 U	1.36 U	1.12	3.29	0.678	6.78 U	5.66	1.36 U	1.42
Toluene	36.6	38.4	6.1	8.1	7.39	7.8	3.77 U	28.1	18
Trichloroethylene (TCE)	1.07 U	19.3	5.37 U	5.37 U	5.37 U	5.37 U	5.37 U	1.07 U	10.7 U
Trichlorofluoromethane	1.17	1.16	0.564	5.62 U	5.62 U	5.62 U	5.62 U	1.19	11.2 U
Total VOCs	215.44	350.48	107.65	458.37	133.48	57.66	32.52	253.73	206.39

Notes:

- $\mu\text{g}/\text{m}^3$ = micrograms per meter cubed
- Total VOCs is the sum of detected VOCs.
- Soil vapor samples were collected at cellar grade, which is about 14 feet below sidewalk grade.
- Only analytes with detections are shown in the table.

Qualifiers:

J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

APPENDIX A
PREVIOUS ENVIRONMENTAL REPORTS

APPENDIX B
SOIL BORING LOGS

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Project 4650 Broadway			Project No. 170505502		
Location Manhattan, New York			Elevation and Datum N/A		
Drilling Company Eastern Environmental Solutions, Inc.			Date Started 4/11/18		Date Finished 4/11/18
Drilling Equipment Geoprobe 6610 DT			Completion Depth 12 ft		Rock Depth N/A
Size and Type of Bit 2-inch Macrocore cutting shoe			Number of Samples Disturbed 3		Undisturbed N/A Core N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First 6		Completion N/A 24 HR. N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Edward Gallo		
Sampler 2-inch diameter 4-foot steel Macrocore			Field Engineer Kevin Garrett		
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A		

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft	PID Reading (ppm)	
	R1a (0-10") Loose, brown fine SAND, trace silt (dry) [FILL]	0	R1 MACROCORE	31/48	24/48	37/48	0.0	Collect sample RSB01_1-2 and RSB01_DUP02_041118
	R1b (10-17") Medium-dense, light brown fine SAND, trace silt (dry) [FILL]	1					0.0	
	R1c (17-20") Medium-dense, brown fine SAND, some silt (dry) [FILL]	2					0.0	
	R1d (20-31") Loose, light brown, fine SAND, trace silt (dry) [FILL]	3					0.0	
	R2a (0-12") Medium-dense, light brown fine SAND, some silt (wet) [FILL]	6	R2 MACROCORE	24/48	37/48	0.0	Collect sample RSB01_6-7 and MS/MSD	
	R2b (12-18") Medium-dense, gray fine SAND, some silt (wet)	7				154.0		
	R2c (18-24") Loose, black fine SAND, some silt (wet)	8				287.9		
	R3a (0-18") Loose, gray fine SAND, some silt (wet)	9				5111		
	R3b (18-25") Medium-dense, black fine SAND, some silt (wet)	10				15000		
	R3c (25-33") Medium-dense, brown fine SAND, some silt (wet)	11				15000		
	R3d (33-37") Loose, olive, fine SAND, trace silt (wet)	12	R3 MACROCORE	37/48	24/48	37/48	4811	End of boring at 12' bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.
		13					37.0	
		14						
		15						

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Project 4650 Broadway			Project No. 170505502		
Location Manhattan, New York			Elevation and Datum N/A		
Drilling Company Eastern Environmental Solutions, Inc.			Date Started 4/11/18		Date Finished 4/11/18
Drilling Equipment Geoprobe 6610 DT			Completion Depth 12 ft		Rock Depth N/A
Size and Type of Bit 2-inch Macrocore cutting shoe			Number of Samples 3		Disturbed N/A
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Core N/A
Casing Hammer N/A			Weight (lbs) N/A		Drop (in) N/A
Sampler 2-inch diameter 4-foot steel Macrocore			Drilling Foreman Edward Gallo		
Sampler Hammer N/A			Weight (lbs) N/A		Drop (in) N/A
			Field Engineer Kevin Garrett		

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)								
			Number	Type	Recov. (in)	Penetr. resist BL/in	PID Reading (ppm)									
X	R1a (0-7") Loose, brown fine SAND, some coarse gravel, trace silt, concrete (dry) [FILL]	0	R1	MACROCORE	29/48			368.5	Collect sample RSB02_0-1							
	R1b (7-12") Medium-dense, brown, fine SAND, trace silt (dry) [FILL]	1						75.2								
	R1c (12-25") Medium-dense, olive, fine SAND, trace silt (dry) [FILL]	2						86.5								
	R1d (25-28") Medium-dense, olive fine SAND, trace silt (dry) [FILL]	3						60.5								
.	R2a (0-7") Medium-dense, brown fine SAND, some silt (moist to wet) [FILL]	4	R2	MACROCORE	24/48			190.4	Collect sample RSB02_6-7							
	R2b (7-16") Medium-dense, black to gray fine SAND, some silt (wet)	5						32.5								
	R2c (16-24") Medium-dense, gray fine SAND, some silt (wet)	6						71.2								
	R3a (0-29") Medium-dense, gray mottled with black fine SAND, some silt (wet)	7						95.0								
	R3b (29-48") Medium-dense, olive to brown fine SAND, some silt (wet)	8						34.1								
		9						49.0								
		10						12.9								
								11		R3	MACROCORE	48/48			14.2	Petroleum-like odor from 7'-10' bgs
								12							2.9	
								13							10.7	
		14	15.1													
		15	16.9													
		16						10.6	End of boring at 12' bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.							
		17					6.7									

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Project 4650 Broadway			Project No. 170505502		
Location Manhattan, New York			Elevation and Datum N/A		
Drilling Company Eastern Environmental Solutions, Inc.			Date Started 4/11/18		Date Finished 4/11/18
Drilling Equipment Geoprobe 6610 DT			Completion Depth 12 ft		Rock Depth N/A
Size and Type of Bit 2-inch Macrocore cutting shoe			Number of Samples 3		Disturbed N/A
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Core N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A		Water Level (ft.) First 6
Sampler 2-inch diameter 4-foot steel Macrocore			Drilling Foreman Edward Gallo		
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A		Field Engineer Kevin Garrett

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist	BL/Join	
	R1a (0-2") Loose, tan fine SAND, some fine gravel, trace silt, concrete, fabric (dry) [FILL]	0	R1	MACROCORE	16/48			11.7
	R1b (2-16") Medium-dense, brown fine SAND, some fine gravel, trace silt (dry) [FILL]	1						53.4
		2						35.8
		3						
		4						
	R2a (0-5") Medium-dense, brown fine SAND, some fine gravel, trace silt (wet) [FILL]	6	R2	MACROCORE	23/48			23.7
	R2b (5-10") Medium-dense, gray fine SAND, some silt (wet)	7						15000
	R2c (10-23") Loose, black fine SAND, trace silt (wet)	8						15000
	R3a (0-8") Medium-dense, black fine SAND, trace silt (wet)	9	R3	MACROCORE	39/48			15000
	R3b (8-13") Medium-dense, brown fine SAND, some silt, trace medium sand (wet)	10						1286
	R3c (13-18") Medium-dense, black fine SAND, trace silt (wet)	11						1483
	R3d (18-27") Medium-dense, brown fine SAND, trace silt (wet)	12						15000
	R3e (27-39") Medium-dense, olive fine SAND, some silt (wet)	13						2302
		14						1703
		15						574.2

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/9/18		Date Finished 4/9/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft	PID Reading (ppm)	
[Cross-hatched pattern]	R1a (0-3") loose, gray, fine SAND, some fine gravel, trace silt (dry) [FILL]	0	R1	MACROCORE	27/48			0.6
	R1b (3-27") Loose, brown fine SAND, trace fine gravel, trace silt (dry) [FILL]	1						0.6
[Cross-hatched pattern]	R2a (0-6") Loose, brown fine SAND, trace silt (moist) [FILL]	2	R2	MACROCORE	28/48			0.5
		3						0.5
[Cross-hatched pattern]	R2b (6-11") Dense, black to gray fine SAND, some silt (wet) [FILL]	4	R2	MACROCORE	28/48			0.0
		5						0.0
[Cross-hatched pattern]	R2c (11-14") Loose, black fine SAND, trace silt (wet) [FILL]	6	R2	MACROCORE	28/48			15000
	R2d (14-21") Loose, gray mottled with black fine SAND, trace silt (wet) [FILL]	7						15000
[Cross-hatched pattern]	R2e (21-22") Medium-dense, light brown fine SAND, trace silt (wet) [FILL]	8	R2	MACROCORE	28/48			2189
	R2f (22-28") Dense, olive fine SAND, some silt (wet)	9						103
[Cross-hatched pattern]	R3 (0-46") Medium-dense, olive SILT, some fine sand (wet)	10	R3	MACROCORE	46/48			211
		11						111
[Cross-hatched pattern]	R3 (0-46") Medium-dense, olive SILT, some fine sand (wet)	12	R3	MACROCORE	46/48			92
		13						70
		14						
		15						

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft		
[Cross-hatch pattern]	R1a (0-11") Loose, red fine SAND, trace fine gravel, trace silt (dry) [FILL]	0	R1	MACROCORE	26/48			Collect sample RSB05_0-1
	R1b (11-16") Medium-dense, gray fine SAND, some silt (dry) [FILL]	1						
	R1c (16-22") Medium-dense, reddish brown fine SAND, trace silt (dry) [FILL]	2						
	R1d (22-26") Loose, olive fine SAND, some silt (dry)	2						
[Dotted pattern]	R2a (0-21") Medium-dense, olive fine SAND, some silt (wet)	6	R2	MACROCORE	25/48			Collect sample RSB05_6-7
	R2b (21-25") Medium-dense, gray fine SAND, some silt (wet)	8						
	R3a (0-17") Medium-dense, olive fine SAND, some silt (wet)	9						
[Dotted pattern]	R3b (17-39") Medium-dense, gray fine SAND, some silt (wet)	10	R3	MACROCORE	39/48		0.0	End of boring at 12' bgs. Borehole backfilled with clean soil cuttings and finished with concrete patch.
		11						
		12						

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First 7	Completion N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist BL/ft	PID Reading (ppm)	
	R1a (0-8") Loose, red fine SAND, trace silt (dry) [FILL]	0	R1	MACROCORE	18/48			0.0
	R1b (8-10") Loose, olive fine SAND, some silt, wood (dry) [FILL]	1						0.0
	R1c (10-18") Loose, tan fine SAND, trace silt (dry) [FILL]	2						0.0
	R2a (0-7") Medium-dense, black fine SAND, some silt (dry)	6	R2	MACROCORE	21/48			0.0
	R2b (7-17") Medium-dense, black fine SAND, trace silt (wet)	7						0.0
	R2c (17-21") Medium-dense, gray fine SAND, trace silt (wet)	8						0.0
	R3a (0-33") Medium-dense, gray fine SAND, some silt (wet)	8						0.0
		9						0.0
		10						0.0
	R3b (29-48") Medium-dense, brown fine SAND, trace silt (wet)	11	R3	MACROCORE	48/48			0.0
		12						0.0
		12						0.0
		13						
		14						
		15						

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First 7	Completion N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft	PID Reading (ppm)	
	R1a (0-7") Loose, tan fine SAND, trace silt (dry) [FILL]	0	R1	MACROCORE	21/48			0.0
	R1b (7-21") Loose, reddish brown fine SAND, trace coarse gravel, trace silt, concrete (dry) [FILL]	1						0.0
		2						0.0
	R2a (0-11") Medium-dense, black fine SAND, some silt (dry)	7	R2	MACROCORE	19/48			0.0
	R2b (11-19") Medium-dense, gray fine SAND, some silt, fibers (wet)	8						0.0
		9						0.0
	R3a (0-17") Medium-dense, gray fine SAND, some silt (wet)	10	R3	MACROCORE	32/48			0.0
	R3b (17-32") Dense, brown fine SAND, some silt (wet)	11						0.0
		12						0.0
		13						
		14						
		15						

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6.5		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft		
[Cross-hatch pattern]	R1a (0-2") Loose, brown fine SAND, trace silt (dry) [FILL]	0					0.0	Collect sample RSB08_1-2
	R1b (2-10") Loose, black mottled with brown fine SAND, trace silt (dry) [FILL]	1				0.0		
	R1c (10-22") Loose, tan mottled with red fine SAND trace silt, trace fine gravel (dry) [FILL]	2	R1	MACROCORE	22/48		0.0	
		3						
[Dotted pattern]	R2a (0-2") Medium-dense, dark brown fine SAND, some silt (dry) [FILL]	4					0.0	Collect sample RSB08_7-8
	R2b (2-10") Medium-dense, brown fine SAND, some silt (wet) [FILL]	5				0.0		
	R2c (10-13") Medium-dense, black fine SAND, trace silt (wet)	6	R2	MACROCORE	19/48		0.0	
	R2d (13-19") Medium-dense, olive fine SAND, trace silt (wet)	7					0.0	
[Vertical lines pattern]	R3a (0-16") Medium-dense, black SILT, some fine sand (moist)	8					0.0	
		9					0.0	
		10	R3	MACROCORE	22/48		0.0	
		11					0.0	
[Dotted pattern]	R3b (16-22") Medium-dense, gray fine SAND, some silt (wet)	12					0.0	Collect sample RSB08_14-15
	R4a (0-34") Medium-dense, gray fine SAND, some silt (wet)	13					0.0	
		14	R4	MACROCORE	48/48		0.0	
		15					0.0	

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Log of Boring

RSB08

Sheet

2

of

2

Project		Project No.						
4650 Broadway		170505502						
Location		Elevation and Datum						
Manhattan, New York		N/A						
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
			Number	Type	Recov. (in)	Penetr. resist BL/6in		PID Reading (ppm)
•••••	R4b (34-48") Medium-dense, gray fine SAND, some silt (wet)	15	R4		48/48		0.0	End of boring at 16' bgs. Borehole backfilled with clean soil cuttings and finished with concrete patch.
		16					0.0	
		17					0.0	
		18						
		19						
		20						
		21						
		22						
		23						
		24						
		25						
		26						
		27						
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		29						
		30						
		31						
		32						
		33						

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/11/18		Date Finished 4/11/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples 3		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 10.5		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)			
			Number	Type	Recov. (in)	Penetr. resist. BL/ft					
	R1 (0-22") Loose, brown mottled with olive fine SAND, trace fine gravel, trace silt (dry) [FILL]	0	R1	MACROCORE	22/48		0.0	Collect sample RSB09_1-2			
		1					0.0				
		2					0.0				
		R2a (0-4") Loose, brown fine SAND, trace fine gravel (dry) [FILL]	7	R2	MACROCORE	10/48			0.0	Collect sample RSB09_7-8	
		R2b (4-10") Medium-dense, brown medium SAND, some fine gravel, trace fine sand, trace silt (moist)	8						0.0		
			R3a (0-4") Medium-dense, brown fine SAND, some medium sand, some fine gravel, trace silt (wet)	9	R3	MACROCORE	18/48				0.0
			R3b (4-8") Medium-dense, brown fine SAND, some silt (wet)	10							0.0
			R3c (8-14") Medium-dense, gray fine SAND, trace silt (wet)	11							0.0
			R3d (14-18") Medium-dense, olive fine SAND, some silt (wet)	12							0.0
			13								
			14								
			15								

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/11/18		Date Finished 4/11/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First 6.5	Completion N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft		
	R1a (0-3") CONCRETE	0						
	R1b (3-13") Loose, brown fine SAND, trace silt (dry) [FILL]	1				0.0		
		2	R1	MACROCORE	13/48			Collect sample RSB10_1-2 and RSDUP01_040918
		3						
		4						
		5						
		6	R2	MACROCORE	18/48			
	R2a (0-6") Medium-dense, brown fine SAND, some fine gravel, trace silt (most) [FILL]	7				0.8		Petroleum-like odor from 7'-11' bgs
	R2b (6-12") Dense, gray SILT, some fine sand (wet)	8				37.4		
	R2c (12-18") Loose, dark gray to black fine SAND, trace medium sand, trace silt (wet)	8				1868		
		9				320		Collect sample RSB10_9-10 and its associated MS/MSD
	R3a (0-25") Medium-dense, black fine SAND, trace medium sand, trace silt (wet)	10	R3	MACROCORE	40/48	15000		
		11				1113		
	R3b (25-31") Medium-dense, brown fine SAND, trace silt (wet)	11				15000		
	R3c (31-40") Dense, olive fine SAND, some silt (wet)	12				4652		End of boring at 12' bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.
		12				754		
		13				642		
		14						
		15						

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/9/18		Date Finished 4/9/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 5		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist	BL/Join	
	R1a (0-7") CONCRETE	0						
	R1b (7-22") Loose, brown fine SAND, trace silt (dry) [FILL]	1					0.0	Collect sample RSB11_1-2
		2	R1	MACROCORE	30/48		0.0	
	R1c (22-30") Loose, olive fine SAND, trace silt (dry) [FILL]	3					0.0	
		4					0.8	
		5						
	R2a (0-14") Medium-dense, gray SILT, some fine sand (wet)	6	R2	MACROCORE	32/48		0.4	Collect sample RSB11_5-6
	R2b (14-32") Medium-dense, black fine SAND, trace silt (wet)	7					2848	
		8					15000	Collect sample RSB11_8-9
		9					15000	
		10	R3	MACROCORE	48/48		15000	
	R3 (0-28") Loose, black fine SAND, trace fine gravel, trace silt (wet)	11					15000	End of boring at 12' bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.
		12					15000	
		13					15000	
		14						
		15						

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First 7	Completion N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft	PID Reading (ppm)	
	R1a (0-6") CONCRETE	0						
	R1b (6-8") Loose, brown fine SAND, trace silt, trace fine gravel (dry) [FILL]	1					0.0	Collect sample RSB13_1-2
	R1c (8-24") Medium-dense, olive fine SAND, trace silt (dry) [FILL]	2	R1	MACROCORE	24/48		0.0	
		3					0.0	
		4						
		5						
	R2a (0-5") Loose, olive fine SAND, trace silt (dry) [FILL]	6	R2	MACROCORE	18/48		0.0	Collect sample RSB13_7-8
	R2b (5-13") Medium-dense, brown fine SAND, trace silt (wet) [FILL]	7					0.0	
	R2c (13-18") Medium-dense, black fine SAND, some fine gravel, trace silt (wet)	8					0.0	
		9						
	R3a (0-2") Medium-dense, black fine SAND, some silt, plant fibers (wet)	10	R3	MACROCORE	31/48		0.0	End of boring at 12' bgs. Borehole backfilled with clean soil cuttings and finished with concrete patch.
	R3b (2-12") Medium-dense, gray fine SAND, some silt (wet)	11					0.0	
	R3c (12-31") Dense, brownish gray fine SAND, some silt (wet)	12					0.0	
		13						
		14						
		15						

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First 7	Completion N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft		
	R1a (0-6") CONCRETE	0						
	R1b (6-12") Loose, dark brown fine SAND, trace silt (dry) [FILL]	1					0.0	Collect sample RSB14_1-2
	R1c (10-18") Loose, brown fine SAND, trace silt, trace fine gravel (dry) [FILL]	1					0.0	
		2	R1	MACROCORE	24/48		0.0	
	R2a (0-20") Medium-dense, brown fine SAND, trace silt (moist) [FILL]	6					0.0	Collect sample RSB14_7-8
		6					0.0	
		6	R2	MACROCORE	24/48		0.0	
	R2b (20-22") Medium-dense, tan fine SAND, trace silt (wet)	8					0.0	Collect sample RSB14_10-11
	R2c (22-24") Medium-dense, gray fine SAND, trace silt (wet)	8					0.0	
		8	R3	MACROCORE	32/48		1.7	
	R3a (0-9") Medium-dense, gray fine SAND, some silt (wet)	9					1.4	End of boring at 12' bgs. Borehole backfilled with clean soil cuttings and finished with concrete patch.
	R3b (9-16") Medium-dense, black fine SAND, some silt (wet)	10					0.0	
	R3c (16-32") Dense, tan fine SAND, some silt (wet)	11					0.0	
		12					0.0	
		13						
		14						
		15						

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Project 4650 Broadway				Project No. 170505502			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 7		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
			Number	Type	Recov. (in)	Penetr. resist. BL/6in			
	R1a (0-5") Loose, dark brown fine SAND, trace silt (dry) [FILL]	0	R1	MACROCORE	27/48		0.0	Collect sample RSB15_0-1	
	R1b (5-27") Loose, brown fine SAND, trace silt (dry) [FILL]	1							0.0
		2							0.0
		3							0.0
	R2a (0-9") Medium-dense, dark brown fine SAND, trace silt (moist) [FILL]	4	R2	MACROCORE	19/48		0.0	Collect sample RSB15_7-8	
	R2b (9-12") Medium-dense, dark brown fine SAND, trace silt (moist) [FILL]	5							0.0
	R2c (12-19") Medium-dense, brown fine SAND, trace silt (wet)	6							0.0
		7							0.0
	R3a (0-19") Dense, brown fine SAND, trace silt (wet)	8	R3	MACROCORE	33/48		0.0	Organic-like odor at 11' bgs	
	R3b (19-24") Medium-dense, black SILT, some fine SAND (wet)	9							
	R3c (24-33") Dense, gray SILT, some fine sand (wet)	10							
		11							
		12						Collect sample RSB15_11-12	
		13						End of boring at 12' bgs.	
		14						Borehole backfilled with clean soil cuttings and finished with concrete patch.	
		15							

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum 25.67			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/11/18		Date Finished 4/11/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BLU/in	PID Reading (ppm)	
[Cross-hatch pattern]	R1a (0-10") loose, brown, fine SAND, trace silt (dry) [FILL]	0						
	R1b (10-17") medium dense, light brown, fine SAND, trace silt (dry) [FILL]	1					0.0	0905 collect sample RSB01_1-2 and RSB01_DUP02_041118
	R1c (17-20") medium dense, brown fine SAND, some silt (dry) [FILL]						0.0	
	R1d (20-31") loose, light brown, fine SAND, trace silt (dry) [FILL]						0.0	
						0.0		
[Dotted pattern]	R2a (0-12") medium dense, light brown, fine SAND, some silt (wet) [FILL]	6					0.0	0912 collect sample RSB01_6-7 and MS/MSD
	R2b (12-18") medium dense, gray, fine SAND, some silt (wet)						154.0	
	R2c (18-24") loose, black, fine SAND, some silt (wet)						287.9	
							5111	
[Dotted pattern]		8					15000	Petroleum-like odor from 7'-10' bgs
							15000	
							15000	
							15000	
[Dotted pattern]		10					15000	0920 collect sample RSB01_10-11
							15000	
							15000	
							15000	
[Dotted pattern]		11					15000	End of boring at 12 ft bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.
							4811	
	R3a (0-18") loose, grey, fine SAND, some silt (wet), grading into	12						

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Project		Project No.					
4650 Broadway		170505501					
Location		Elevation and Datum					
Manhattan, New York		25.67					
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/6in	
	R3b (18-25") medium dense, black, fine SAND, some silt (wet) R3c (25-33") medium dense, brown, fine SAND, some silt (wet) R3d (33-37") loose, olive, fine SAND, trace silt (wet)	12				37.0	
		13					
		14					
		15					
		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/11/18		Date Finished 4/11/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples 3		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6.5		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BLU/in	PID Reading (ppm)	
	R1a (0-7") loose, brown, fine SAND, some coarse gravel, trace silt, concrete (dry) [FILL]	0						
	R1b (7-12") medium dense, brown, fine SAND, trace silt (dry) [FILL]	1					368.5	1120 collect sample RSB02_0-1
	R1c (12-25") medium dense, olive, fine SAND, trace silt (dry) [FILL]						75.2	
	R1d (25-28") medium dense						86.5	
		2	R1	MACROCORE	29/48		60.5	
		3					190.4	
	R2a (0-7") medium dense, brown, fine SAND, some silt (moist to wet) [FILL]	4						
	R2b (7-16") medium dense, black to gray, fine SAND, some silt (wet)	5						1126 collect sample RSB02_6-7
	R2c (16-24") medium dense, grey, fine SAND, some silt (wet)						32.5	
							71.2	
		6	R2	MACROCORE	24/48		95.0	
		7					34.1	Petroleum-like odor from 7'-10' bgs
		8					49.0	
		9					12.9	
	R3a (0-29") medium dense, grey mottled with black, fine SAND, some silt (wet)	10						End of boring at 12 ft bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.
	R3b (29-48") medium dense, olive to brown, fine SAND, some silt (wet)						14.2	
							2.9	
			10	R3	MACROCORE	48/48		
		11					15.1	
		11					16.9	
		12					10.6	

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/11/18		Date Finished 4/11/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6	Completion N/A	24 HR. N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Edward Gallo			
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A				

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
[Cross-hatch pattern]	R1a (0-2") loose, tan, fine SAND, some fine gravel, trace silt, concrete, fabric (dry) [FILL] R1b (2-16") medium dense, brown, fine SAND, some fine gravel, trace silt (dry) [FILL]	0	R1	MACROCORE	16/48			11.7
		1						53.4
		2						35.8
[Dotted pattern]	R2a (0-5") medium dense, brown, fine SAND, some fine gravel, trace silt (wet) [FILL] R2b (5-10") medium dense, gray, fine SAND, some silt (wet) R2c (10-23") loose, black, fine SAND, trace silt (wet)	4	R2	MACROCORE	23/48			23.7
		5						15000
		7						15000
		8						15000
[Dotted pattern]	R3a (0-8") medium dense, black, fine SAND, trace silt (wet) R3b (8-13") medium dense, brown, fine SAND, some silt, trace medium sand (wet) R3c (13-18") medium dense, black, fine SAND, trace silt (wet) R3d (18-27") medium dense, brown, fine SAND, trace silt (wet) R3e (27-39") medium dense, olive, fine SAND, some silt (wet)	8	R3	MACROCORE	39/48			15000
		9						1286
		10						1483
		11						15000
		12						2302
		1703	End of boring at 12 ft bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.					

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/9/18		Date Finished 4/9/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
[Cross-hatch pattern]	R1a (0-3") loose, gray, fine SAND, some fine gravel, trace silt (dry) [FILL]	0						
	R1b (3-27") loose, brown, fine SAND, trace fine gravel, trace silt (dry) [FILL]	1						0950 collect sample RSB04_1-2
[Cross-hatch pattern]		2	R1	MACROCORE	27/48			
		3						
		4						
		5						
		6	R2	MACROCORE	28/48		0.0	0920 collect sample RSB04_6-7
		7					0.0	
[Cross-hatch pattern]	R2a (0-6") loose, brown, fine SAND, trace silt (moist) [FILL]							
	R2b (6-11") dense, black to gray, fine SAND, some silt (wet) [FILL]							
	R2c (11-14") lose, black, fine SAND, trace silt (wet) [FILL]							
[Cross-hatch pattern]	R2d (14-21") loose, gray mottled with black, fine SAND, trace silt (wet) [FILL]					15000	Encountered petroleum-like odor at 7' bgs	
	R2e (21-22") medium dense, light brown, fine SAND, trace silt (wet) [FILL]					15000		
[Cross-hatch pattern]	R2 f (22-28") dense, olive, fine SAND, some silt (wet)							
		8				2189		
	R3 (0-46") medium dense, olive, SILT, some fine sand (wet)							
		9						
[Cross-hatch pattern]		10	R3	MACROCORE	46/48		103	0955 collect sample RSB04_10-11
		11					211	
		12					111	End of boring at 12 ft bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft	
[Cross-hatched pattern]	R1a (0-11") loose, red, fine SAND, trace fine gravel, trace silt (dry) [FILL]	0					
	R1b (11-16") medium dense, gray, fine SAND, some silt (dry) [FILL]	1					1324 collect sample RSB05_0-1
	R1c (16-22") medium dense, reddish brown, fine SAND, trace silt (dry) [FILL]						
	R1d (22-26") loose, olive, fine SAND, some silt (dry)						
	2	R1	MACROCORE	26/48			
	3						
	4						
	5						
	R2a (0-21") medium dense, olive, fine SAND, some silt (wet)	6					1431 collect sample RSB05_6-7
	R2b (21-25") medium dense, gray, fine SAND, some silt (wet)						
		7					
		8					
	R3a (0-17") medium dense, olive, fine SAND, some silt (wet)	9				0.0	
	R3b (17-39") medium dense, gray, fine SAND, some silt (wet)					0.0	
			10	R3	MACROCORE	39/48	0.0
			11				0.0
		12				0.0	End of boring at 12 ft bgs. Borehole backfilled with clean soil cuttings and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 7		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	R1a (0-8") loose, red, fine SAND, trace silt (dry) [FILL] R1b (8-10") loose, olive, fine SAND, some silt, wood (dry) [FILL] R1c (10-18") loose, tan, fine SAND, trace silt (dry) [FILL]	0					0.0	0932 collect sample RSB06_1-2
		1				0.0		
		2	R1	MACROCORE	18/48		0.0	
	R2a (0-7") medium dense, black, fine SAND, some silt (dry) R2b (7-17") medium dense, black, fine SAND, trace silt (wet) R2c (17-21") medium dense, gray, fine SAND, trace silt (wet)	4					0.0	
		5				0.0		
		6	R2	MACROCORE	21/48		0.0	
	R3a (0-33") medium dense, grey, fine SAND, some silt (wet) R3b (29-48") medium dense, brown, fine SAND, trace silt (wet)	7					0.0	
		8				0.0		
		9	R3	MACROCORE	48/48		0.0	
		10				0.0	End of boring at 12 ft bgs. Borehole backfilled with clean soil cuttings and finished with concrete patch.	
		11				0.0		
		12				0.0		

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6	Completion N/A	24 HR. N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Edward Gallo			
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	R1a (0-7") loose, tan, fine SAND, trace silt (dry) [FILL] R1b (7-21") loose, reddish brown, fine SAND, trace coarse gravel, trace silt, concrete (dry) [FILL]	0	R1	MACROCORE	21/48			0.0
		1						0.0
		2						0.0
	R2a (0-11") medium dense, black, fine SAND, some silt (dry) R2b (11-19") medium dense, grey, fine SAND, some silt, fibers (wet)	4	R2	MACROCORE	19/48			0.0
		5						0.0
		6						0.0
	R3a (0-17") medium dense, grey, fine SAND, some silt (wet) R3b (17-32") dense, brown, fine SAND, some silt (wet)	8	R3	MACROCORE	32/48			0.0
		9						0.0
		10						0.0
		11						0.0
		12						0.0

End of boring at 12 ft bgs.
Borehole backfilled with clean soil cuttings and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	4.5-inch concrete slab	0						
	R1 (0-7") Reddish-brown fine SAND, some silt (moist) [FILL]	1	R1	MACROCORE	7/36		0.0	
	R2a (0-5") Brown fine SAND (moist) [FILL] R2b (5-13") Reddish-brown fine SAND, some silt (moist) [FILL]	2	R2	MACROCORE	17/36		0.2	
	R2c (13-17") Dark gray silty fine SAND, trace fine gravel (moist to wet)	3					0.0	
	R3a (0-7") Dark gray clayey SILT, trace sand (wet)	4	R3	MACROCORE	16/36		0.0	
	R3b (7-16") Gray to purpleish-gray fine SAND (wet)	5					0.0	
		6					0.0	1224 collect RSB07_N1_7-8
		7					0.0	
		8					0.0	
		9					0.0	End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		10						
		11						
		12						
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6	Completion N/A	24 HR. N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BLU/in		
	R1 CONCRETE	0						
		1	R1	MACROCORE	1/36		0.0	
		2						
		3						
		4	R2	MACROCORE	8/36			
	R2 (0-8") Brown fine SAND, trace fine gravel, trace silt (moist) [FILL]	5					0.0	
	R3a (0-3") Gray fine SAND, trace silt (wet)	6					0.0	
		7	R3	MACROCORE	14/36			1315 collect RSB07_N2
	R3b (3-4") Gray silty-CLAY (wet)	8					0.0	
	R3c (4-14") Gray-purplish gray fine SAND (wet)	9					0.0	End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		10						
		11						
		12						
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Zinsir			
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A				

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	6-inch concrete slab	0						
	R1 (6-9") Brown fine SAND, trace silt [FILL]	1	R1	MACROCORE	9/36		0.0	
		2					0.0	
	R2a (0-12") brown fine SAND, trace silt (moist) [FILL]	4	R2	MACROCORE	21/36		0.0	1001 collect RSB07_R_3-5
	R2b (12-21") dark gray fine SAND, trace silt, trace weathered rock	6					0.0	1002 collect RSB07_R_5-7
	R3a (0-4") Gray fine SAND, trace silt (moist to wet) organic	7	R3	MACROCORE	15/36		0.0	
	R3b (4-7") Dark gray clayey-SILT, some fine sand (wet)	8					0.0	1003 collect RSB07_R_7-8
	R3c (7-15") Gray fine SAND (wet)	9					0.0	1004 collect RSB07_R_8-10
	R4 Gray to reddish-brown fine SAND (wet)	10	R4	MACROCORE	23/36		0.1	
		11					0.0	1005 collect RSB07_R_10-12
		12					0.0	End of boring at 12 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BLU/in		
	5-inch concrete slab	0						
	R1 (5-12") Brown fine SAND [FILL]	1	R1	MACROCORE	12/36		0.0	
		2					0.0	
		3						
		4						
	R2a (0-7") Brown fine SAND, trace silt, trace coarse sand [FILL] (moist)	5	R2	MACROCORE	15/36		0.0	
	R2b (7-14") Brown fine SAND, trace silt (wet)	6					0.1	
	R2c (14-15") Dark gray fine SAND, trace fine gravel	6					0.0	
		7						
	R3a (0-6") Gray fine SAND, trace silt	8	R3	MACROCORE	15/36		0.0	
	R3b (6-9") Dark gray to gray clayey-SILT, some fine sand (wet)	8					0.0	1035 collect RSB07_SE1_7-8
	R3c (9-15") Gray fine SAND, trace silt (wet)	9					0.0	
	R4a (0-10") Gray fine SAND (wet)	9					0.0	
		10					0.0	
	R4b (10-24") Reddish-brown fine SAND (wet)	10	R4	MACROCORE	14/36		0.0	
		11					0.0	
		12					0.0	
		13					0.0	End of boring at 12 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	5-inch concrete slab	0						
	R1 Brown medium SAND, trace coarse sand (dry) [FILL]	1	R1	MACROCORE	12/36		0.0	
		2						
		3						
	R2a (0-11") Brown to reddish-brown fine SAND, trace silt (moist) [FILL]	4	R2	MACROCORE	16/36		0.0	
		5					0.0	
		6					0.0	
	R2b (11-16") Gray fine SAND, some silt (moist to wet)	6						
		7	R3	MACROCORE	12/36		0.0	1103 collect RSB07_SE2
	R3 Gray fine SAND, trace silt (wet)	8					0.0	
		9					0.0	
		10	R4	MACROCORE	17/36		0.0	
	R4a (0-10") Gray fine SAND, trace silt (wet)	11					0.0	
		12					0.0	
	R4b (10-17") Gray to reddish brown fine SAND, trace silt (wet)	12					0.0	
		13						End of boring at 12 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First 6	Completion N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	7-inch concrete slab	0					0.0	
		1	R1	MACROCORE	7/36			
		2						
		3						
		4	R2	MACROCORE	20/36		0.0	
	R2a (0-13") Brown fine SAND, some silt, trace clay [FILL]	5					0.0	
	R2b (13-20") Dark brown fine SAND, some silt, trace coarse sand, trace clay (wet) [FILL]	6					0.0	
		7	R3	MACROCORE	20/36		0.0	1133 collect RSB07_SW1_7-8
	R3a (0-8") Gray silty fine SAND, trace clay (wet)	8					0.0	
	R3b (8-20") Gray to purplish gray fine SAND, trace silt (wet)	9					0.0	
		10	R4	MACROCORE	15/36		0.0	
	R4 Brown to reddish brown fine SAND (wet)	11					0.0	
		12					0.0	
		13					0.0	End of boring at 12 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples 4		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 7.5		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/6in		
	6-inch concrete slab	0						
	No recovery	1-5	R1	MACROCORE	6/36		0.0	
		6-7	R2	MACROCORE	0/36			
	R3a (0-7") Gray clayey SILT, some fine sand (wet)	7	R3	MACROCORE	19/36		0.0	1200 collect RSB07_SW2
	R3b (7-19") Gray to purplish gray fine SAND, trace silt (wet)	8					0.0	
		9					0.0	
	R4 Purplish-gray to reddish-brown fine SAND (wet)	10	R4	MACROCORE	18/36		0.0	
		11					0.0	
		12					0.0	End of boring at 12 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples 4		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6.5		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
			Number	Type	Recov. (in)	Penetr. resist. BL/6in		PID Reading (ppm)
[Cross-hatched pattern]	R1a (0-2") loose, brown, fine SAND, trace silt (dry) [FILL]	0	R1	MACROCORE	22/48		0.0	
	R1b (2-10") loose, black mottled with brown, fine SAND, trace silt (dry) [FILL]	1						1208 collect sample RSB08_1-2
	R1c (10-22") loose, tan mottled with red, fine SAND trace silt, trace fine gravel (dry) [FILL]	2						
		3						
[Dotted pattern]	R2a (0-2") medium dense, dark brown, fine SAND, some silt (dry) [FILL]	4	R2	MACROCORE	19/48		0.0	
	R2b (2-10") medium dense, brown fine SAND, some silt (wet) [FILL]	5						1223 collect sample RSB08_7-8
	R2c (10-13") medium dense, black fine SAND, trace silt (wet)	6						
	R2d (13-19"): medium dense, olive fine SAND, trace silt (wet)	7						
[Vertical lines pattern]	R3a (0-16") medium dense, black, SILT, some fine sand (moist)	8	R3	MACROCORE	22/48		0.0	
	R3b (16-22") medium dense, grey, fine SAND, some silt (wet)	9						
		10						
		11						
[Dotted pattern]	R4a (0-34") medium dense, grey, fine SAND, some silt (wet)	12	R4	MACROCORE	48/48		0.0	
	R4b (34-48") medium dense, grey, fine SAND, some silt (wet)	13						1215 collect sample RSB08_14-15
		14						
		15						
		16					0.0	End of boring at 16 ft bgs. Borehole backfilled with clean soil cuttings and finished with

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/11/18		Date Finished 4/11/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples 3		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 10.5		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
[Cross-hatched pattern]	R1 (0-22") loose, brown mottled with olive, fine SAND, trace fine gravel, trace silt (dry) [FILL]	0					0.0	1209 collect sample RSB09_1-2
		1				0.0		
		2	R1	MACROCORE	22/48		0.0	
		3						
[Dotted pattern]	R2a (0-4") loose, brown, fine SAND, trace fine gravel (dry) [FILL] R2b (4-10") medium dense, medium SAND, some fine gravel, trace find sand, trace silt (moist)	4						1217 collect sample RSB09_7-8
		5						
		6	R2	MACROCORE	10/48			
		7						
[Dotted pattern]	R3a (0-4") medium dense, brown, fine SAND, some medium sand, some fine gravel, trace silt (wet) R3b (4-8") medium dense, brown, fine SAND, some silt (wet) R3c (8-14") medium dense, grey, fine SAND, trace silt (wet) R3d (14-18") medium dense, olive, fine SAND, some silt (wet)	8					0.0	End of boring at 12 ft bgs. Borehole backfilled with clean soil cuttings and finished with concrete patch.
		9					0.0	
		10	R3	MACROCORE	18/48			
		11					0.0	
		12					0.0	

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/11/18		Date Finished 4/11/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6.5		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft		
	R1a (0-3") CONCRETE	0						
	R1b (3-13") loose, brown, fine SAND, trace silt (dry) [FILL]	1				0.0		
		2	R1	MACROCORE	13/48		0.0	1130 collect sample RSB10_1-2 and RSDUP01_040918
		3						
	R2a (0-6") medium dense, brown, fine SAND, some fine gravel, trace silt (most) [FILL]	4						
	R2b (6-12") dense, grey, SILT, some fine sand (wet)	5						
		6	R2	MACROCORE	18/48			
		7					0.8	Encountered petroleum-like odor from 7'-11' bgs
	R3b (12-18") loose, dark grey to black, fine SAND, trace medium sand, trace silt (wet)	8				37.4		
	R3a (0-25") medium dense, black fine SAND, trace medium sand, trace silt (wet)	9				1868		
	R3b (25-31") medium dense, brown fine SAND, trace silt (wet)	10	R3	MACROCORE	40/48		320	1111 collect sample RSB10_9-10 and its associated MS/MSD
		11					15000	
	R3c (31-40") dense olive, fine SAND, some silt (wet)	12				4652		End of boring at 12 ft bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.
						754		

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/9/18		Date Finished 4/9/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 5	Completion N/A	Core N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Edward Gallo			
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A				

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BLU/in	PID Reading (ppm)	
[Concrete Symbol]	R1a (0-7") CONCRETE	0	R1	MACROCORE	30/48			
	R1b (7-22") loose, brown, fine SAND, trace silt (dry) [FILL]	1						0.0
	R2b (22-30") loose, olive, fine SAND, trace silt (dry) [FILL]	2						0.0
		3						0.8
[Silt/Sand Symbol]	R2a (0-14") medium dense, grey, SILT, some fine SAND (wet)	4	R2	MACROCORE	32/48			
		5						0.4
	R2b (14-32") medium dense, black, fine SAND, trace silt (wet)	6						2848
		7						15000
[Sand Symbol]	R3a (0-28") loose, black, fine SAND, trace fine gravel, trace silt (wet)	8	R3	MACROCORE	48/48			
		9						15000
		10						15000
	R3b (28-48"): no recovery	11						15000
		12					End of boring at 12 ft bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.	

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/9/18		Date Finished 4/9/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples 3		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 5.5		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BLU/in	PID Reading (ppm)	
	R1a (0-7") concrete	0						
	R1b (7-26") loose, brown, fine SAND, trace silt (dry) [FILL]	1					0.0	1518 collect sample RSB12_1-2
	R1c (26-28") loose, olive, fine SAND, trace silt (dry) [FILL]	2	R1	MACROCORE	28/48		0.0	
		3					18.5	
	4					24.3		
	R2a (0-7") medium dense, brown, fine SAND, some silt (wet) [FILL]	5						1505 collect sample RSB12_5-6
	R2b (7-30") dense, gray, fine SAND, some silt (wet)	6	R2	MACROCORE	33/48		23.8	
		7					43.4	
		8					176.0	
	R2c (30-33") medium dense, black, SILT, some fine sand (wet)	9					124.0	1454 collect sample RSB12_7-8
	R3a (0-24") dense, black, SILT, some fine sand (wet)	10	R3	MACROCORE	48/48		90.6	
		11					11.7	
		12					72.4	
	R3b (24-44") dense, brown, fine SAND, some silt (wet)	10					21.8	End of boring at 12 ft bgs. Soil cuttings placed in drum. Borehole finished with concrete patch.
		11					7.6	
		12					7.0	
		13					6.2	
	R3c (44-48") dense, grey, SILT, some fine sand (wet)	13						
		14						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BLU/in	PID Reading (ppm)	
	R1a (0-6") concrete	0						
	R1b (6-8") loose, brown, fine SAND, trace silt, trace fine gravel (dry) [FILL]	1					0.0	1123 collect sample RSB13_1-2
	R1c (8-24") medium dense, olive, fine SAND, trace silt (dry) [FILL]						0.0	
		2	R1	MACROCORE	24/48		0.0	
	3							
	R2a (0-5") loose, olive, fine SAND, trace silt (dry) [FILL]	6					0.0	1128 collect sample RSB13_7-8
	R2b (5-13") medium dense, brown, fine SAND, trace silt (wet) [FILL]						0.0	
		7	R2	MACROCORE	18/48		0.0	
		8					0.0	
	R2c (13-18") medium dense, black, fine SAND, some fine gravel, trace silt (wet)	9					0.0	End of boring at 12 ft bgs. Borehole backfilled with clean soil cuttings and finished with concrete patch.
	R3a (0-2") medium dense, black, fine SAND, some silt, plant fibers (wet)						0.0	
	R3b (2-12") medium dense, grey, fine SAND, some silt (wet)	10					0.0	
	R3c (12-31") dense, brownish grey, fine SAND, some silt (wet)						0.0	
	11	R3	MACROCORE	31/48		0.0		
	12					0.0		

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/27/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe				Number of Samples 3		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 4.5		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/ft		
	8-inch concrete slab	0					0.0	
		1	R1	MACROCORE	8/36			
		2						
		3						
	R2a (0-15") Brown fine SAND, trace coarse sand (moist) [FILL]	4	R2	MACROCORE	21/36		0.0	
		5					0.0	
	R2b (15-21") Brown to black fine SAND, trace silt, trace fine gravel (wet)	6					0.0	
		7	R3	MACROCORE	8/36		0.0	1414 collect RSB13_E1_7-8
	R3 Brown fine SAND, trace fine gravel (wet)	8					0.0	
		9					0.0	End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		10						
		11						
		12						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First 6	Completion N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/6in		
	6-inch concrete slab	0						
	R1 Brown fine SAND, trace silt [FILL]	1	R1	MACROCORE	12/36		0.0	
		2					0.0	
		3						
		4	R2	MACROCORE	12/36			
	R2 Brown fine SAND, trace silt, trace coarse sand (moist) [FILL]	5					0.0	
		6					0.0	
		7	R3	MACROCORE	13/36			1519 collect RSB13_E2_7-8
	R3a (0-7") Brown to black medium SAND, trace silt (wet)	8					0.0	
	R3b (7-13") Dark gray SILT, trace fine sand, trace coarse sand	9					0.0	
		10					0.0	End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		11						
		12						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/6in		
	6-inch concrete slab	0					0.0	
	No recovery	1-3	R1	MACROCORE	6/36			
		4-5	R2	MACROCORE	0/36			
	R3 Black fine SAND, trace silt, some organic matter, trace fine gravel (wet)	6-9	R3	MACROCORE	8/36		0.0	1334 collect RSB13_NW1_7-8
		9-12					0.0	End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	4-inch concrete slab	0						
	R1 No Recovery	1	R1	MACROCORE	4/36			
	R2 No recovery	3	R2	MACROCORE	0/36			
		6						
		7						
	R3b (4-7") Dark gray clayey SILT, trace sand (wet)	8	R3	MACROCORE	14/36		0.0	1315 collect RSB13_NW2_7-8
	R3c (7-10") Dark gray fine SAND, trace silt (wet)	8					0.0	
	R3d (10-14") Dark gray silty fine SAND (wet)	8					0.0	
		9					0.0	End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		10						
		11						
		12						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Undisturbed	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 2-inch diameter 3-foot steel Macrocore				Water Level (ft.) First 6		Completion N/A	
Sampler Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
				Drilling Foreman John Zinsir			
				Field Engineer Dina Palazzolo			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	6-inch concrete slab	0						
		1	R1	MACROCORE	6/36			
		2						
		3						
		4	R2	MACROCORE	9/36			
	R2 (0-7") Brown fine SAND, trace silt (moist) [FILL]	5					0.0	
		6					0.0	
		7	R3	MACROCORE	10/36			
	R3a (0-7") Black fine SAND, some coarse sand, trace silt, trace concrete (moist)	8					0.0	1400 collect RSB13_R_7-8
	R3b (7-10") Dark gray fine SAND, trace silt (wet)	9					0.0	1400 collect RSB13_R_8-10
		10	R4	MACROCORE	20/36			
	R4a (0-8") Dark gray fine SAND (wet)	11					0.0	
	R4b (8-20") Dark gray fine SAND, trace silt (wet)	12					0.0	1400 collect RSB13_R_10-12
		13					0.0	
		14					0.0	End of boring at 12 ft bgs. Borehole backfilled with clean sand and finished with concrete patch

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples 3		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 5.5		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 2-inch diameter 3-foot steel Macrocore				Drilling Foreman John Zinsir			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Field Engineer Dina Palazzolo	

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	6.5-inch concrete slab	0						
	R1 Brown fine SAND, trace silt (moist)[FILL]	1	R1	MACROCORE	22/36		0.0	
		2					0.0	
		3						
		4	R2	MACROCORE	9/36			
	R2a (0-6") Black medium SAND, trace fine gravel (moist) [FILL]	5					0.0	
	R2b (6-9") Dark gray fine SAND (wet)	6					0.0	
		7						
	R3 (0-14") Brown to reddish-brown fine SAND, trace silt (wet)	8	R3	MACROCORE	14/63		0.0	1424 collect RSB13_S1_7-8 and RSDUP04_072618
		9					0.0	End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		10						
		11						
		12						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/26/18		Date Finished 7/26/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	6-inch concrete slab	0						
	R1 (6-15") Brown fine SAND, trace silt [FILL]	1	R1	MACROCORE	22/36			0.0
		2						0.0
		3						
		4	R2	MACROCORE	14/36			0.0
	R2 (0-14") Brown fine SAND, trace silt [FILL]	5						
		6						0.0
		7	R3	MACROCORE	17/36			0.0
	R3a (0-5") Brown to dark gray fine SAND, trace silt (wet)	8						0.0
	R3b (5-15") Purplish-gray fine SAND (wet)	9						0.0
		10						0.0
		11						0.0
		12						0.0

1500 collect RSB13_S2_7-8 and MS/MSD04_072618

End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501				
Location Manhattan, New York				Elevation and Datum N/A				
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18		
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A		
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A	Core N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 7		Completion N/A	24 HR. N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo		
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett				
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A				
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
			Number	Type	Recov. (in)	Penetr. resist. BL/ft		PID Reading (ppm)
	R1a (0-6") concrete R1b (6-12") loose, dark brown, fine SAND, trace silt (dry) [FILL] R1c (10-18") loose, brown, fine SAND, trace silt, trace fine gravel (dry) [FILL]	0	R1	MACROCORE	24/48		0.0	
		1						1345 collect sample RSB14_1-2
		2						
		3						
	R2a (0-20") medium dense, brown, fine SAND, trace silt (moist) [FILL] R2b (20-22") medium dense, tan, fine SAND, trace silt (wet) R2c (22-24") medium dense, gray, fine SAND, trace silt (wet)	4	R2	MACROCORE	24/48		0.0	
		5						1339 collect sample RSB14_7-8
		6						
		7						
	R3a (0-9") medium dense, grey, fine SAND, some silt (wet) R3b (9-16") medium dense, black, fine SAND, some silt (wet) R3c (16-32") dense, tan, fine SAND, some silt (wet)	8	R3	MACROCORE	32/48		1.7	
		9						1331 collect sample RSB14_10-11
		10						
		11						
		12					0.0	End of boring at 12 ft bgs. Borehole backfilled with clean soil cuttings and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 4/10/18		Date Finished 4/10/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Macrocore cutting shoe				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 7		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	R1a (0-5") loose, dark brown, fine SAND, trace silt (dry) [FILL] R1b (5-27") loose, brown, fine SAND, trace silt (dry) [FILL]	0	R1	MACROCORE	27/48			0.0
		1						0.0
		2						0.0
		3						0.0
	R2a (0-9") medium dense, dark brown, fine SAND, trace silt (moist) [FILL] R2b (9-12") medium dense, dark brown, fine SAND, trace silt (moist) [FILL]	4	R2	MACROCORE	19/48			0.0
		5						0.0
		6						0.0
		7						0.0
	R2c (12-19") medium dense, brown, fine SAND, trace silt (wet)	8	R3	MACROCORE	33/48			0.0
		9						
		10						
		11						
	R3a (0-19") dense, brown, fine SAND, trace silt (wet)							
	R3b (19-24") medium dense, black, SILT, some fine SAND (wet) R3c (24-33") dense, gray, SILT, some fine sand (wet)	12						Encountered organic-like odor at 11' bgs 0842 collect sample RSB15_11-12 End of boring at 12 ft bgs. Borehole backfilled with clean

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/27/18		Date Finished 7/27/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 15 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples 5		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 4.8		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Drilling Foreman John Zinsir			
Sampler Hammer N/A				Field Engineer Dina Palazzolo			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. Bl/in		
	6-inch Concrete slab	0						
	R1 (6-16") Brown fine SAND, trace silt [FILL]	1	R1	MACROCORE	23/36		0.0	
		2					0.0	
		3						
	R2a (0-15") Brown fine SAND, trace coarse sand (moist to wet) [FILL]	4	R2	MACROCORE	26/36		0.6	
		5					1.0	
	R2b (15-26") Brown to black fine SAND (wet)	6					475	Petroluem-like odors/staining
		7					1451	
	R3 (0-28") Brown to black fine SAND (wet)	8	R3	MACROCORE	28/36		1100	1620 collect RSB16_6-8
		9					225	
		10					60	
	R4a (0-19") Brown to gray SILT, trace sand (moist)	11	R4	MACROCORE	30/36		64	
		12					9.0	
	R4b (19-36") Gray SILT, trace clay, trace organic matter	13					9.4	
		14					4.0	
	R5a (0-10") Dark gray SILT, trace fine sand	15	R5	MACROCORE	28/36		2.7	0904 collect RSB16_13-14 and RSB DUP03_072718
		16					2.2	
	R5b (10-28") Dark gray SILT, trace fine sand, trace clay	17					2.0	End of boring at 15 ft bgs. Permanent well constructed, well screen set from 3-13ft. Finished with a J-plug and manhole cover.
		18					2.0	
		19					1.5	
		20						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/27/18		Date Finished 7/27/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples 3		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 4.5		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Drilling Foreman John Zinsir			
Sampler Hammer N/A				Field Engineer Dina Palazzolo			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	6-inch Concrete slab	0						
	R1a (6-15) Brown fine SAND, trace silt, trace coarse sand (dry) [FILL]	1	R1	MACROCORE	21/36			0.0
	R1b (15-21) Dark brown fine SAND, some silt (dry) [FILL]	2						0.7
		3						0.7
	R2a (0-7) Brown fine SAND, trace coarse sand, trace silt (moist) [FILL]	4	R2	MACROCORE	18/36			0.7
	R2b (7-18) Brown fine SAND, trace silt (wet)	5						0.8
		6						1.4
	R3a (0-6) Brown fine SAND, trace coarse sand (wet)	7	R3	MACROCORE	30/36			17.5
	R3b (6-30) Gray to black fine SAND, trace silt (wet)	8						27.5
		9						31.5
		10						2.2
		11						0.0
		12						

1105 collect RSB17_7-8, Petroleum like odors/staining

1100 collect RSB17_8-9. End of boring at 9 ft bgs. Borehole was backfilled with clean sand and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/27/18		Date Finished 7/27/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples 3		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 4.5		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Drilling Foreman John Zinsir			
Sampler Hammer N/A				Field Engineer Dina Palazzolo			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	6-inch Concrete slab	0						
	R1 (6-15) Brown fine SAND, trace silt (moist) [FILL]	1	R1	MACROCORE	15/36		0.0	
		2					0.0	
	R2a (0-11) Brown fine SAND, trace silt, trace coarse sand (wet to moist) [FILL]	3						
		4	R2	MACROCORE	24/36		0.0	
	R2b (11-24) Brown fine SAND, trace silt (wet)	5					0.0	1335 collect RSB18_4-6
		6					0.0	
	R3a (0-10) Brown to gray fine SAND, trace coarse sand (wet)	7	R2	MACROCORE	24/36		0.0	
	R3b (10-15) Gray SILT, trace fine sand, trace clay (wet)	8					0.0	1330 collect RSB_8-9
	R3c (15-24) Gray fine SAND, trace silt	9					2.4	
		10					2.2	End of boring at 9 ft bgs. Permanent well constructed, well screen set from 3-13ft. Finished with a J-plug and manhole cover.
		11						
		12						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/27/18		Date Finished 7/27/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples		Disturbed 3	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 5		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	6-inch Concrete slab	0						
	R1 (6-16") Brown fine SAND, trace silt [FILL]	1	R1	MACROCORE	16/36		0.0	
		2					0.0	
	R2a (0-12") Brown to gray fine SAND, trace coarse sand (moist) [FILL]	4	R2	MACROCORE	23/36			
		5					0.0	
	R2b (12-23") Gray fine SAND, trace silt (wet)	6						
	R3 (0-36") Gray with some brown fine SAND, trace silt (wet)	6					1.2	
		7	R3	MACROCORE	36/36		5.0	1210 collect RSB19_7-8
		8					16.0	1201 collect RSB19_8-9
		9					4.0	
		9					1.0	End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.
		10						
		11						
		12						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/30/18		Date Finished 7/30/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples 3		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 4.5		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Drilling Foreman John Zinsir			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Field Engineer Dina Palazzolo	

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	4-inch Concrete slab	0						
	R1 (4-22") Brown fine SAND, trace coarse sand (moist) [FILL]	1	R1	MACROCORE	22/36			0.0
	R2a (0-13") Brown fine SAND, trace coarse sand, trace silt, trace fine gravel (moist) [FILL]	4	R2	MACROCORE	23/36			0.0
	R2b (13-23") Brown fine SAND, trace silt (wet)	5						0.0
	R3a (0-4") Brown to dark brown fine SAND (wet)	7						0.0
	R3b (4-6") Brown to dark brown SILT, some sand (wet)	8	R3	MACROCORE	25/36			0.0
	R3c (6-25") Dark brown fine SAND	9						0.0
		10						0.0
		11						0.0
		12						0.0

0851 collect RSB20_4-6, 0908 collect RSBMS03_073018 and RSBMSD_073018

0905 collect RSB20_7-9 for clean parameters

End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/30/18		Date Finished 7/30/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
[Cross-hatch pattern]	4-inch Concrete slab	0						
	R1 (4-12") Brown fine SAND, trace coarse sand [FILL]	1	R1	MACROCORE	12/36			0.0
[Dotted pattern]	R2a (0-11") Brown fine SAND, trace coarse sand, trace fine gravel (moist) [FILL]	4	R2	MACROCORE	17/36			0.0
	R2b (11-17") Brown fine SAND, trace silt (moist to wet)	5						0.0
	R3a (0-8") Dark brown fine SAND, some silt (wet)	7	R3	MACROCORE	22/36			0.2
	R3b (8-22") Dark gray fine SAND, trace silt (wet)	8						4.1
[Dotted pattern]	R4a (0-22") Dark gray fine SAND, trace silt (wet)	9						26.2
		10						47.6
		11						48.9
[Vertical lines pattern]	R4b (22-36") Dark gray SILT, trace fine sand, trace clay (wet)	11	R4	MACROCORE	36/36			16.6
		12						2.4
		13						0.7
		14						0.1

1155 collect RSB21_8-9
Petroleum-like odors

1149 collect RSB21_11-12

End of boring at 12 ft bgs.
Borehole backfilled with clean sand and finished with a concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/30/18		Date Finished 7/30/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	5-inch Concrete slab	0						
	R1 (5-15") Brown to dark brown clayey SILT, trace fine sand (moist) [FILL]	1	R1	MACROCORE	15/36			
		2						
		3						
	R2a (0-8") Dark brown fine SAND, some clay (moist)	4	R2	MACROCORE	21/36			
	R2b (8-15") Dark brown fine SAND, trace silt, trace clay (moist)	5						
	R2c (15-21") Brown fine SAND, trace silt (moist to wet)	6						
		7						
	R3a (0-8") Dark brown to gray clayey SILT, trace fine sand (wet)	8	R3	MACROCORE	24/36			
	R3b (8-13") Brown fine SAND, trace silt (wet)	9						
	R3c (13-24") Brown to dark gray SAND (wet)	10						
		11						
	R4a (0-16") Dark brown fine SAND (wet)	12	R4	MACROCORE	36/36			0955 collect RSB22_8-9; Petroleum-like odors and staining
		13						
	R4b (16-36") Brown fine SAND, trace silt (wet)	14						0950 collect RSB22_10-12
		15						End of boring at 12 ft bgs. Borehole backfilled with clean sand and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/31/18		Date Finished 7/31/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples 3		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 4.5		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Drilling Foreman John Zinsir			
Sampler Hammer N/A				Field Engineer Dina Palazzolo			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	6" Concrete slab	0						
	R1 (6-14") Fine brown SAND, trace coarse sand [FILL]	1	R1	MACROCORE	14/36		0.0	
	R2a (0-7") Brown fine SAND, trace coarse sand, trace silt (moist) [FILL]	4	R2	MACROCORE	23/36		0.0	
	R2b (7-23") Brown fine SAND, trace silt (wet)	5						0914 collect RSB25_4-5
	R3 (0-36") Brown fine SAND, trace coarse sand	6	R3	MACROCORE	36/36		0.0	
		9					0.0	End of boring at 9 ft bgs. Borehole backfilled with sand and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501				
Location Manhattan, New York				Elevation and Datum N/A				
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/31/18		Date Finished 7/31/18		
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A		
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples		Disturbed 4	Undisturbed N/A	Core N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 5		Completion N/A	24 HR. N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir		
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Field Engineer Dina Palazzolo				
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A				

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	R1a (0-5") CONCRETE	0						
	R1b (5-19") Brown fine SAND, trace coarse sand (moist) [FILL]	1	R1	MACROCORE	19/36		0.0	
		2					0.0	
		3					0.0	
	R2a (0-9") Brown fine SAND, trace coarse sand [FILL]	4	R2	MACROCORE	20/36		0.0	
		5					0.2	
	R2b (9-11") Brown fine SAND, trace silt (moist to wet)	6					3.1	
		7					8.5	Petroleum-like odors and staining
		8					11.0	
	R3a (0-8") Brown to gray fine SAND, trace coarse sand (wet)	9	R3	MACROCORE	26/36		26.1	
		10					45.2	Petroleum-like odors and staining
	R3b (8-26") Brown to gray clayey SILT, trace fine sand (wet)	11					24.2	0835 collect sample RSB26_7-8
		12					3.5	
		13					0.2	
	R4a (0-24") Brown to gray fine SAND, some silt (wet)	14	R4	MACROCORE	36/36		0.0	0827 collect sample RSB27_10-11
		15					0.0	
	R4b (24-36") Gray clayey SILT (wet)	16					0.0	
		17					0.0	
		18					0.0	End of boring at 12 ft bgs. Borehole backfilled with sand and finished with concrete patch

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/30/18		Date Finished 7/30/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	R1a (0-7") CONCRETE	0						
	R1b (7-17") Brown fine SAND, trace coarse sand (moist) [FILL]	1	R1	MACROCORE	17/36		0.0	
		2					0.0	
		3						
		4	R2	MACROCORE	13/36			
	R2 (0-13") Brown to gray fine SAND, some coarse sand, trace fine gravel, weathered bedrock (moist to wet) [FILL]	5					0.0	
		6					0.0	
		7	R3	MACROCORE	22/36		0.0	
	R3a (0-8") Brown fine SAND, trace coarse sand (wet)							
	R3b (8-10") Brown clayey SILT, trace fine sand (wet)	8					0.0	Petroleum-like odors and staining
	R3c (10-22") Brown to gray fine SAND, trace silt						5.5	
		9					5.7	
	R4a (0-17") Brown to gray fine SAND						15.6	Petroleum-like odors and staining; 1320 collect sample RSB27_9-10
		10					7.6	
		11	R4	MACROCORE	36/36		7.6	
	R4b (17-36") Brown to gray SILT, trace fine sand						5.1	1315 collect sample RSB27_11-12
		12					0.0	
		13						
		14					0.0	End of boring at 12 ft bgs. Borehole backfilled with sand and finished with concrete patch.

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/30/18		Date Finished 7/30/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples 3		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6.5		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Drilling Foreman John Zinsir			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Field Engineer Dina Palazzolo	

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in		
	R1a (0-8") CONCRETE	0					0.0	
		1	R1	MACROCORE	8/36			
		2						
		3						
		4	R2	MACROCORE	10/36			
	R2a (0-7") Brown fine SAND, trace coarse sand (moist) [FILL]	5					0.0	
		6					3.1	
	R2b (7-10") Dark brown fine SAND, trace silt, trace fine gravel	6					0.0	1338 collect sample RSB28_6-7
		7	R3	MACROCORE	20/36			
	R3a (0-7") Brown fine SAND, trace coarse sand	7					0.0	
	R3b (7-10") Brown to gray clayey SILT, trace fine sand (wet)	8					0.0	
	R3c (10-20") Brown to gray fine SAND, trace silt	8					0.0	
		9					0.0	
		10						End of boring at 14 ft bgs. Permanent well constructed, well screen set from 3-13ft. Finished with a J-plug and manhole cover.
		11						
		12						
		13						
		14						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 7/31/18		Date Finished 7/31/18	
Drilling Equipment Geoprobe 6610 DT				Completion Depth 12 ft		Rock Depth N/A	
Size and Type of Bit 2.25-inch Macrocore cutting shoe/dual tube				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman John Zinsir	
Sampler 2.25-inch diameter 3-foot steel Macrocore/3-foot dual tube				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BLU/in	PID Reading (ppm)	
	R1a (0-8") CONCRETE	0						
	R1b (8-18") Brown fine SAND [FILL]	1	R1	MACROCORE	18/36			
		2						
		3						
	R2a (0-15") Dark brown to black fine SAND, trace coarse sand, trace silt [FILL]	4	R2	MACROCORE	24/36			
		5						
	R2b (15-24") Brown fine SAND (moist)							
	R3a (0-17") Brown fine SAND, trace silt (wet)	6						
		7						
	R3b (17-22") Gray clayey SILT, trace fine sand (wet)		R3	MACROCORE	36/36			
	R3c (22-36") gray to dark gray fine SAND (wet)	8						Petroleum-like odors and staining, 1105 collect sample RSB29_8-9
		9						
		10						
	R4 (0-36") Brown to gray fine SAND, trace silt (wet)		R4	MACROCORE	36/36			1101 collect sample RSB29_10-11
		11						
		12						
		13						
		14						End of boring at 12 ft bgs. Borehole backfilled with sand and finished with asphalt patch

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 8/2/18		Date Finished 8/2/18	
Drilling Equipment Geoprobe 420M				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples 3		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6	Completion N/A	24 HR. N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Zinsir			
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	R1a (0-5") CONCRETE	0						
	R1b (0-10") Brown fine SAND, trace coarse sand, trace fine gravel [FILL]	1	R1	MACROCORE	24/36			0.0
	R1c (10-24") Brown to dark brown fine SAND, trace coarse sand, trace silt (moist) [FILL]	2						0.0
		3						0.0
	R2a (0-8") Brown to dark brown fine SAND, trace coarse sand, trace silt (moist to wet) [FILL]	4	R2	MACROCORE	22/36			0.0
	R2b (8-22") Brown fine SAND, trace silt (wet)	5						0.0
		6						1102 collect sample RSB30_5-6
	R3a (0-22") Brown to gray fine SAND (wet)	6	R3	MACROCORE	36/36			0.0
		7						0.0
	R3b (22-36") Gray clayey SILT, trace fine sand (wet)	8						0.0
		9						0.0
		10						End of boring at 14 ft bgs. Permanent well constructed, well screen set from 4-14ft. Finished with a J-plug and manhole cover.
		11						
		12						

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 8/1/18		Date Finished 8/1/18	
Drilling Equipment Geoprobe 420M				Completion Depth 9 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples 3		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 6	Completion N/A	24 HR. N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Zinsir			
Sampler 2-inch diameter 3-foot steel Macrocore				Field Engineer Dina Palazzolo			
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A				

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	R1a (0-6") CONCRETE	0						
	R1b (6-11") Brown fine SAND, trace coarse sand, trace fine gravel [FILL]	1	R1	MACROCORE	11/36			0.0
	R2a (0-12") Brown fine SAND, trace fine gravel, trace silt (moist) [FILL]	2	R2	MACROCORE	21/36			0.0
	R2b (12-21") Brown fine SAND, trace silt (moist to wet)	3						0.0
	R3a (0-17") Brown fine SAND, trace coarse sand (wet)	4	R3	MACROCORE	24/36			0.0
	R3b (17-24") Brown fine SAND (wet)	5						0.0
		6						0.0
		7						0.0
		8						0.0
		9						0.0
		10						0.0
		11						0.0
		12						0.0

1440 collect sample RSB31_5-6

End of boring at 9 ft bgs. Borehole backfilled with clean sand and finished with concrete patch

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Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 9/4/18		Date Finished 9/4/18	
Drilling Equipment Geoprobe 7822DT				Completion Depth 28 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples 7		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 11	Completion N/A	24 HR. N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Edward Gallo			
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Katherine Racanelli			
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A				

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
[Cross-hatched pattern]	R1a (0-4") CONCRETE	0						
	R1b (4-48") grey, medium SAND, trace fine gravel, asphalt, concrete (dry) [FILL]	1	R 1	HAND AUGER	48/48			0.0 0.0 0.0
[Dotted pattern]	R2 (0-20") reddish brown, fine SAND (dry)	4	R 2	MACROCORE	20/48			0.0 0.0 0.0
	R3a (0-7") reddish brown, fine SAND (dry)	10	R 3	MACROCORE	21/48			0.0 0.0 0.0
	R3b (7-21") grey, fine SAND, trace coarse sand (wet)	11						0.0 0.0
	R4a (0-20") reddish brown, fine SAND (wet)	13	R 4	MACROCORE	35/48			0.0 0.0 0.0 0.0
[Dotted pattern]	R4b (20-35") olive, fine SAND, some silt, trace clay (wet)	15						0.0 0.0
	R5 (0-20") reddish brown to green, fine SAND, trace silt (wet)	18	R 5	MACROCORE	20/48			0.0 0.0 0.0

MW32 installed with 10 ft screen from 8 to 18 ft bgs

1115 collect sample RSB32_11-13

Project		Project No.						
4650 Broadway		170505501						
Location		Elevation and Datum						
Manhattan, New York		N/A						
MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
			Number	Type	Recov. (in)	Penetr. resist. BL/6in		PID Reading (ppm)
	R6a (0-20") reddish brown to olive, fine SAND, trace silt (wet)	20	R6	MACROCORE	24/48			0.0
		21						0.0
		22						0.0
		23						0.0
	R6b (20-24") dark grey, fine SAND (wet)	24				0.0		
	R7 (0-30") grey, fine SAND, some silt (wet)	25	R7	MACROCORE	30/48			2.0
		26						1.5
	27	1.0						
	27	1.4						
	27	1.6						
	28	End of boring at 28 ft bgs.						
		29						
		30						
		31						
		32						
		33						
		34						
		35						
		36						
		37						
		38						
		39						
		40						
		41						
		42						
		43						
		44						
		45						

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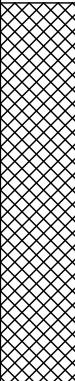

Project 4650 Broadway				Project No. 170505501			
Location Manhattan, New York				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 9/4/18		Date Finished 9/4/18	
Drilling Equipment Geoprobe 7822DT				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 1.75-inch Macrocore cutting shoe				Number of Samples 5		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 11.5		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Edward Gallo	
Sampler 2-inch diameter 4-foot steel Macrocore				Field Engineer Katherine Racanelli			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			Number	Type	Recov. (in)	Penetr. resist	BL/in	
	R1a (0-5") CONCRETE	0						
	R1b (5-48") reddish brown, fine SAND, trace medium sand, trace silt, brick, concrete, asphalt (dry) [FILL]	1						
		2	R 1	HAND AUGER	48/48			
		3						
		4						
		5						
	R2 (0-22") reddish to light brown, fine SAND, asphalt (dry) [FILL]	6	R 2	MACROCORE	22/48		0.0	
		7					0.0	
		8					0.0	
		9					0.0	MW32 installed with 10 ft screen from 8 to 18 ft bgs
	R3a (0-26") reddish brown fine SAND (dry)	10	R 3	MACROCORE	32/48		0.0	
		11					0.0	
	R3b (26-32") grey, silty fine SAND (wet)	12					0.0	
		13					0.0	0900 collect sample RSB33_11-13
		14	R 4	MACROCORE	33/48		0.0	
		15					0.0	
		16					0.0	
		17					0.0	
		18	R 5	MACROCORE	17/48		0.0	
		19					0.0	
	R5 (0-17") olive, silty fine SAND (wet)	20					0.0	End of boring at 20 ft bgs.

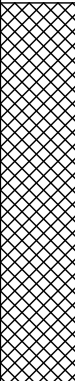

PROJECT 4650 Broadway			PROJECT NO. 170505502		
LOCATION Manhattan			ELEVATION AND DATUM Approx.		
DRILLING EQUIPMENT Geprobe 6610 DT		DATE STARTED 8/26/19		DATE FINISHED 8/26/19	COMPLETION DEPTH 8 ft.
SIZE AND TYPE OF BIT 2 in Macrocore Bit			NUMBER OF SAMPLES 2	DIST. N/A	CORE N/A
CASING DIAMETER (in) N/A	CASING DEPTH(ft) N/A		WATER LEVEL (ft.) 4.5	FIRST ▽	UNDIST. N/A
SAMPLER 4 ft acetate liner			DRILLING FOREMAN Pat		
SAMPLER HAMMER N/A	WEIGHT(lbs) N/A	DROP(in) N/A	INSPECTING ENGINEER Kevin Garrett		

ELEV. (ft)	SAMPLE DESCRIPTION	SYMBOL LOG	DEPTH SCALE	SAMPLE DATA						REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOV. (in)	PENETR. RESIST (lb/in)	N-VALUE BLOWS PER FT	PID Reading (ppm)	
	R1a (0-8") unconsolidated, brown fine GRAVEL, some fine sand (dry) [FILL] R1b (9-18") unconsolidated, black, fine SAND, some fine gravel (dry) [FILL]		1						0.0	Sample Collected - R5B03A_0-1 10:45
			2						0.0	
			3						0.0	
	R2a (0-33") consolidated, black, silty fine SAND (wet) R2b (33-43") consolidated, brown, silty fine SAND (wet)		4						3.7	Sample Collected - R5B03A_5-6 10:50
			5						4.4	
			6						10.2	
			7						43.1	
			8						67.4	
			9						0.6	
			10						0.0	
			11							
			12							
			13							
			14							


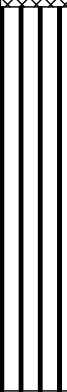
PROJECT 4650 Broadway			PROJECT NO. 170505502		
LOCATION Manhattan			ELEVATION AND DATUM Approx.		
DRILLING EQUIPMENT Geprobe 6610 DT		DATE STARTED 8/26/19		DATE FINISHED 8/26/19	COMPLETION DEPTH 8 ft.
SIZE AND TYPE OF BIT 2 in Macrocore Bit			NUMBER OF SAMPLES 2	DIST. N/A	CORE N/A
CASING DIAMETER (in) N/A	CASING DEPTH(ft) N/A		WATER LEVEL (ft.) N/A	FIRST 5	UNDIST. N/A
SAMPLER 4 ft acetate liner			DRILLING FOREMAN Pat		
SAMPLER HAMMER N/A	WEIGHT(lbs) N/A	DROP(in) N/A	INSPECTING ENGINEER Kevin Garrett		

ELEV. (ft)	SAMPLE DESCRIPTION	SYMBOL LOG	DEPTH SCALE	SAMPLE DATA						PID Reading (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOV. (in)	PENETR. RESIST BL/6in	N-VALUE BLOWS PER FT			
	R1a (0-6") CONCRETE										
	R1b (6-30") consolidated, brown, fine SAND, trace fine gravel [FILL]			1						0.0	Sample Collected - R5B05A_0-1 10:25
	R1c (30-38") consolidated, grey, fine SAND, some silt (moist)			2						0.0	
			3						0.0		
	R2 (0-36") soft, grey, fine sandy SILT		4								
				5						0.0	Sample Collected - R5B05A_5-6 10:30
				6						0.0	
				7						0.0	
				8						0.0	
				9						0.0	
				10						0.0	
				11						0.0	
			12						0.0		
			13						0.0		
			14						0.0		

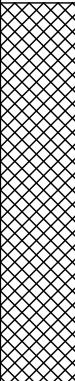

PROJECT 4650 Broadway			PROJECT NO. 170505502		
LOCATION Manhattan			ELEVATION AND DATUM Approx.		
DRILLING EQUIPMENT Geprobe 6610 DT		DATE STARTED 8/26/19		DATE FINISHED 8/26/19	COMPLETION DEPTH 8 ft.
SIZE AND TYPE OF BIT 2 in Macrocore Bit			NUMBER OF SAMPLES 2	DIST. N/A	CORE N/A
CASING DIAMETER (in) N/A	CASING DEPTH(ft) N/A		WATER LEVEL (ft.) 5.5	FIRST 5.5	COMPL. N/A
SAMPLER 4 ft acetate liner			DRILLING FOREMAN Pat		
SAMPLER HAMMER N/A	WEIGHT(lbs) N/A	DROP(in) N/A	INSPECTING ENGINEER Kevin Garrett		

ELEV. (ft)	SAMPLE DESCRIPTION	SYMBOL LOG	DEPTH SCALE	SAMPLE DATA						PID Reading (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOV. (in)	PENETR. RESIST. Bl/in	N-VALUE BLOWS PER FT			
	R1a (0-4") CONCRETE		0							0.0	
	R1b (4-16") consolidated, brown, fine SAND, trace fine gravel, trace silt (dry) [FILL]		1							0.0	
			2								
			3								
	R2a (0-32") consolidated, brown, fine silty SAND (wet)		4								
			5								
			6							0.0	Sample Collected - R5B06A_6-7 09:40
			7							0.0	
			8							0.0	
			9							0.0	
			10							0.0	
			11							0.0	
		12									
		13									
		14									

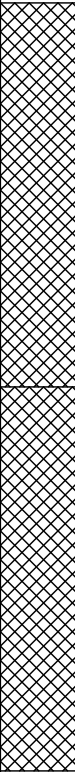
PROJECT 4650 Broadway			PROJECT NO. 170505502		
LOCATION Manhattan			ELEVATION AND DATUM Approx.		
DRILLING EQUIPMENT Geprobe 6610 DT		DATE STARTED 8/26/19		DATE FINISHED 8/26/19	COMPLETION DEPTH 8 ft.
SIZE AND TYPE OF BIT 2 in Macrocore Bit			NUMBER OF SAMPLES 2	DIST. N/A	CORE N/A
CASING DIAMETER (in) N/A	CASING DEPTH(ft) N/A		WATER LEVEL (ft.) N/A	FIRST 5	COMPL. N/A
SAMPLER 4 ft acetate liner			DRILLING FOREMAN Pat		
SAMPLER HAMMER N/A	WEIGHT(lbs) N/A	DROP(in) N/A	INSPECTING ENGINEER Kevin Garrett		

ELEV. (ft)	SAMPLE DESCRIPTION	SYMBOL LOG	DEPTH SCALE	SAMPLE DATA							REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOV. (in)	PENETR. RESIST (in)	N-VALUE BLOW PER FT	PID Reading (ppm)		
	R1a (0-6") CONCRETE		1							0.0	Sample Collected - R5B07A_2-3 09:11
	R1b (6-32") consolidated, brown, fine SAND, trace fine gravel, brick (dry) [FILL]		2							0.0	
			3							0.0	
			4							0.0	
	R2a (0-11") consolidated, brown, fine SAND, some silt, trace fine gravel (moist) [FILL]		5							0.0	Sample Collected - R5B07A_5-6 (MS/MSD) 09:15
	R2b (11-42") soft, grey, SILT, some fine sand (wet)		6							0.0	
			7							0.0	
			8							0.0	
			9							0.0	
			10							0.0	
			11							0.0	
			12							0.0	
		13							0.0		
		14							0.0		

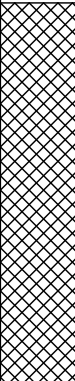
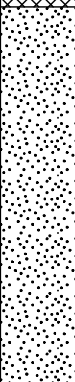
PROJECT 4650 Broadway			PROJECT NO. 170505502		
LOCATION Manhattan			ELEVATION AND DATUM Approx.		
DRILLING EQUIPMENT Geprobe 6610 DT		DATE STARTED 8/26/19		DATE FINISHED 8/26/19	COMPLETION DEPTH 8 ft.
SIZE AND TYPE OF BIT 2 in Macrocore Bit			NUMBER OF SAMPLES 2	DIST. N/A	CORE N/A
CASING DIAMETER (in) N/A	CASING DEPTH(ft) N/A		WATER LEVEL (ft.) N/A	FIRST 7	COMPL. N/A
SAMPLER 4 ft acetate liner			DRILLING FOREMAN Pat		
SAMPLER HAMMER N/A	WEIGHT(lbs) N/A	DROP(in) N/A	INSPECTING ENGINEER Kevin Garrett		

ELEV. (ft)	SAMPLE DESCRIPTION	SYMBOL LOG	DEPTH SCALE	SAMPLE DATA						REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOV. (in)	PENETR. RESIST BL/6in	N-VALUE BLOWS PER FT	PLD Reading (ppm)	
	R1a (0-4") CONCRETE		1						0.0	Sample Collected - R5B08A_0-1 08:59
	R1b (4-12") consolidated, brown, fine Sand, some silt, trace gravel (dry) [FILL]		2						0.0	
			3							
			4							
	R2 (0-9") consolidated, brown, fine GRAVEL, some silt, trace fine sand (wet)		5							Sample Collected - R5B08A_7-8 09:01
			6							
			7							
			8						0.0	
			9							
			10							
			11							
			12							
			13							
			14							

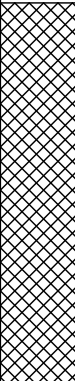
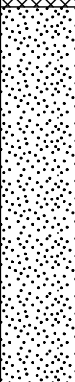
PROJECT 4650 Broadway			PROJECT NO. 170505502		
LOCATION Manhattan			ELEVATION AND DATUM Approx.		
DRILLING EQUIPMENT Geprobe 6610 DT		DATE STARTED 8/26/19		DATE FINISHED 8/26/19	COMPLETION DEPTH 8 ft.
SIZE AND TYPE OF BIT 2 in Macrocore Bit			NUMBER OF SAMPLES 3	DIST. 3	UNDIST. N/A
CASING DIAMETER (in) N/A	CASING DEPTH(ft) N/A		WATER LEVEL (ft.) N/A	FIRST N/A	COMPL. N/A
SAMPLER 4 ft acetate liner			DRILLING FOREMAN Pat		
SAMPLER HAMMER N/A	WEIGHT(lbs) N/A	DROP(in) N/A	INSPECTING ENGINEER Kevin Garrett		

ELEV. (ft)	SAMPLE DESCRIPTION	SYMBOL LOG	DEPTH SCALE	SAMPLE DATA						PID Reading (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOV. (in)	PENETR. RESIST BL/in	N-VALUE BLOWS PER FT			
	R1a (0-2") CONCRETE [FILL] R1b (2-26") unconsolidated, brown, fine SAND, trace fine gravel, concrete (dry) [FILL] R1c (26-28") consolidated, brown?, fine SAND, some fine gravel, slag (dry) [FILL]		1							0.0	Sample Collected - R5B09A_1-2 and DUP 08:45
			2							0.0	
			3							0.0	
			4							0.0	
	R2a (0-20") consolidated, brown, fine SAND, trace silt, trace fine gravel (wet) [FILL] R2b (20-30") consolidated, grey, fine GRAVEL, some fine sand (wet)		5							0.0	
			6							0.0	
			7							0.0	
			8							0.0	
		9									
		10									
		11									
		12									
		13									
		14									

PROJECT 4650 Broadway			PROJECT NO. 170505502		
LOCATION Manhattan			ELEVATION AND DATUM Approx.		
DRILLING EQUIPMENT Geprobe 6610 DT		DATE STARTED 8/26/19		DATE FINISHED 8/26/19	COMPLETION DEPTH 8 ft.
SIZE AND TYPE OF BIT 2 in Macrocore Bit			NUMBER OF SAMPLES 2	DIST. N/A	CORE N/A
CASING DIAMETER (in) N/A	CASING DEPTH(ft) N/A		WATER LEVEL (ft.) N/A	FIRST 5	COMPL. N/A
SAMPLER 4 ft acetate liner			DRILLING FOREMAN Pat		
SAMPLER HAMMER N/A	WEIGHT(lbs) N/A	DROP(in) N/A	INSPECTING ENGINEER Kevin Garrett		

ELEV. (ft)	SAMPLE DESCRIPTION	SYMBOL LOG	DEPTH SCALE	SAMPLE DATA						PID Reading (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOV. (in)	PENETR. RESIST BL/in	N-VALUE BLOWS PER FT			
	R1a (0-8") CONCRETE										
	R1b (8-35") consolidated, brown, fine SAND, trace fine gravel (dry) [FILL]			1						0.0	
	R1c (35-41") consolidated, dark brown, fine SAND, trace silt (moist)			2						0.0	
			3						0.0	Sample Collected - R5B14A_2-3 10:05	
	R2a (0-29") consolidated, greyish brown, fine SAND, some medium sand, trace silt (wet)		4						0.0		
	R2b (29-39") soft, grey, SILT, some fine sand (wet)			5					0.0		
				6					0.0	Sample Collected - R5B14A_5-6 10:10	
				7					0.0		
				8					0.0		
				9					0.0		
			10					0.0			
			11					0.0			
			12					0.0			
			13					0.0			
			14					0.0			

PROJECT 4650 Broadway			PROJECT NO. 170505502		
LOCATION Manhattan			ELEVATION AND DATUM Approx.		
DRILLING EQUIPMENT Geprobe 6610 DT		DATE STARTED 8/26/19		DATE FINISHED 8/26/19	COMPLETION DEPTH 8 ft.
SIZE AND TYPE OF BIT 2 in Macrocore Bit			NUMBER OF SAMPLES 2	DIST. N/A	CORE N/A
CASING DIAMETER (in) N/A	CASING DEPTH(ft) N/A		WATER LEVEL (ft.) N/A	FIRST 5	COMPL. N/A
SAMPLER 4 ft acetate liner			DRILLING FOREMAN Pat		
SAMPLER HAMMER N/A	WEIGHT(lbs) N/A	DROP(in) N/A	INSPECTING ENGINEER Kevin Garrett		

ELEV. (ft)	SAMPLE DESCRIPTION	SYMBOL LOG	DEPTH SCALE	SAMPLE DATA						REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)	
				NUMBER	TYPE	RECOV. (in)	PENETR. RESIST. Bl/in	N-VALUE BLOWS PER FT	PID Reading (ppm)		
	R1a (0-6") CONCRETE										
	R1b (6-25") consolidated, brown, fine SAND, trace fine gravel (dry) [FILL]			1						0.0	
	R1c (25-43") consolidated, brown, medium SAND, some fine sand			2						0.0	
				3						0.0	
	R2a (0-28") consolidated, brown, medium SAND, some fine sand (wet)			4							
	R2b (28-36") doft, grey, SILT, some fine sand (wet)			5							
				6							
				7							
				8							
				9							
				10							
				11							
			12								
			13								
			14								

Sample Collected - R5B15A_3-4
09:50

Sample Collected - R5B15A_5-6
09:55

APPENDIX C
MONITORING WELL CONSTRUCTION LOGS

Well # RMW01

PROJECT 4650 Broadway	PROJECT NO. 170505502	
LOCATION Manhattan	ELEVATION AND DATUM El. 25.67 feet NAVD88	
DRILLING AGENCY Eastern Environmental Solutions, Inc.	DATE STARTED 4/11/2018	DATE FINISHED 4/11/2018
DRILLING EQUIPMENT Geoprobe 6610DT	DRILLER Edward Gallo	
SIZE AND TYPE OF BIT 2-inch diameter macrocore direct push	INSPECTORS Kevin Garrett	

METHOD OF INSTALLATION
Eastern advanced a 2-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 15 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 1-inch diameter well was constructed of 10 feet of 0.01-slot screen set from 5 to 15 feet below cellar grade and 5 feet of solid PVC riser from 0 to 5 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 2 feet above the top of the screen followed by a bentonite seal to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.

METHOD OF WELL DEVELOPMENT
The well was pumped using a peristaltic pump until the discharge water was clear. About 5.00 gallons of water was pumped from the well during development.

TYPE OF CASING Sch 40 PVC	DIAMETER 1-inch	TYPE OF BACKFILL MATERIAL Sand
TYPE OF SCREEN Sch 40 PVC	DIAMETER 1-inch	TYPE OF SEAL MATERIAL Grout
BOREHOLE DIAMETER 2-inch	TYPE OF FILTER MATERIAL Sand	

TOP OF CASING	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION ⁽¹⁾ , NOTES	DEPTH (FT) ⁽²⁾
		0			
TOP OF SEAL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	<p>The diagram illustrates the well's vertical structure. At the top is a Manhole Cover. Below it is a Solid Riser extending to a depth of 0.5 feet. From 0.5 feet to 3 feet depth, the well is filled with Grout. From 3 feet to 5 feet depth, the well consists of a Screen. From 5 feet to 15 feet depth, the well is filled with Sand. The bottom of the well is at a depth of 15 feet.</p>	Ground Surface	0.0
TOP OF FILTER	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			0.50
TOP OF SCREEN	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			5
BOTTOM OF WELL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			15
SCREEN LENGTH		LENGTH (ft)			10
SLOT SIZE	0.01-inch				
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
21.37	4/11/2018	4.3			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			15.0

PROJECT 4650 Broadway	PROJECT NO. 170505502	
LOCATION Manhattan	ELEVATION AND DATUM El. 25.76 feet NAVD88	
DRILLING AGENCY Eastern Environmental Solutions, Inc.	DATE STARTED 4/11/2018	DATE FINISHED 4/11/2018
DRILLING EQUIPMENT Geoprobe 6610DT	DRILLER Edward Gallo	
SIZE AND TYPE OF BIT 2-inch diameter macrocore direct push	INSPECTORS Kevin Garrett	

METHOD OF INSTALLATION
 Eastern advanced a 2-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 15 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 1-inch diameter well was constructed of 10 feet of 0.01-slot screen set from 5 to 15 feet below cellar grade and 5 feet of solid PVC riser from 0 to 5 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 2 feet above the top of the screen followed by a bentonite seal to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.

METHOD OF WELL DEVELOPMENT
 The well was pumped using a peristaltic pump until the discharge water was clear. About 5.00 gallons of water was pumped from the well during development.

TYPE OF CASING Sch 40 PVC	DIAMETER 1-inch	TYPE OF BACKFILL MATERIAL Sand
TYPE OF SCREEN Sch 40 PVC	DIAMETER 1-inch	TYPE OF SEAL MATERIAL Grout
BOREHOLE DIAMETER 2-inch	TYPE OF FILTER MATERIAL Sand	

TOP OF CASING	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION ⁽¹⁾ , NOTES	DEPTH (FT) ⁽²⁾
		0			
TOP OF SEAL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	<p>The diagram illustrates the well's vertical profile. From the surface (0.0 ft depth), there is a Manhole Cover at 0.5 ft depth. Below this is a Solid Riser extending to 3 ft depth. A layer of Grout is located between the riser and the casing. From 3 ft to 5 ft depth, there is a Screen. From 5 ft to 15 ft depth, the well is filled with Sand. The bottom of the well is at 15 ft depth.</p>	Ground Surface	0.0
TOP OF FILTER	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			0.50
TOP OF SCREEN	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			5
BOTTOM OF WELL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			15
SCREEN LENGTH		LENGTH (ft)			3.0
SLOT SIZE	0.01-inch				5.0
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
21.26	4/11/2018	4.5			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			

Well # RMW03

PROJECT 4650 Broadway	PROJECT NO. 170505502	
LOCATION Manhattan	ELEVATION AND DATUM El. 25.70 feet NAVD88	
DRILLING AGENCY Eastern Environmental Solutions, Inc.	DATE STARTED 4/11/2018	DATE FINISHED 4/11/2018
DRILLING EQUIPMENT Geoprobe 6610DT	DRILLER Edward Gallo	
SIZE AND TYPE OF BIT 2-inch diameter macrocore direct push	INSPECTORS Kevin Garrett	

METHOD OF INSTALLATION
Eastern advanced a 2-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 15 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 1-inch diameter well was constructed of 10 feet of 0.01-slot screen set from 5 to 15 feet below cellar grade and 5 feet of solid PVC riser from 0 to 5 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 2 feet above the top of the screen followed by a bentonite seal to to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.

METHOD OF WELL DEVELOPMENT
The well was pumped using a peristaltic pump until the discharge water was clear. About 5.00 gallons of water was pumped from the well during development.

TYPE OF CASING Sch 40 PVC	DIAMETER 1-inch	TYPE OF BACKFILL MATERIAL Sand
TYPE OF SCREEN Sch 40 PVC	DIAMETER 1-inch	TYPE OF SEAL MATERIAL Grout
BOREHOLE DIAMETER 2-inch	TYPE OF FILTER MATERIAL Sand	

TOP OF CASING	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION ⁽¹⁾ , NOTES	DEPTH (FT) ⁽²⁾
		0			
TOP OF SEAL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	<p>The diagram shows a vertical cross-section of the well. At the top is a Manhole Cover. Below it is a Solid Riser extending to a depth of 0.5 feet. From 0.5 feet to 3 feet depth, the well is filled with Grout. From 3 feet to 5 feet depth, there is a Screen. From 5 feet to 15 feet depth, the well is filled with Sand. The bottom of the well is at 15 feet depth.</p>	Ground Surface	0.0
TOP OF FILTER	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			0.50
TOP OF SCREEN	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			5
BOTTOM OF WELL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			15
SCREEN LENGTH		LENGTH (ft)			10
SLOT SIZE	0.01-inch				
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
21.60	4/11/2018	4.1			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			15.0

PROJECT 4650 Broadway	PROJECT NO. 170505502	
LOCATION Manhattan	ELEVATION AND DATUM El. 25.69 feet NAVD88	
DRILLING AGENCY Eastern Environmental Solutions, Inc.	DATE STARTED 4/9/2018	DATE FINISHED 4/9/2018
DRILLING EQUIPMENT Geoprobe 6610DT	DRILLER Edward Gallo	
SIZE AND TYPE OF BIT 2-inch diameter macrocore direct push	INSPECTORS Kevin Garrett	

METHOD OF INSTALLATION
Eastern advanced a 2-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 12 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 1-inch diameter well was constructed of 10 feet of 0.01-slot screen set from 2 to 12 feet below cellar grade and 5 feet of solid PVC riser from 0 to 2 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 1.5 feet above the top of the screen followed by a bentonite seal to to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.

METHOD OF WELL DEVELOPMENT
The well was pumped using a peristaltic pump until the discharge water was clear. About 5.00 gallons of water was pumped from the well during development.

TYPE OF CASING Sch 40 PVC	DIAMETER 1-inch	TYPE OF BACKFILL MATERIAL Sand
TYPE OF SCREEN Sch 40 PVC	DIAMETER 1-inch	TYPE OF SEAL MATERIAL Grout
BOREHOLE DIAMETER 2-inch	TYPE OF FILTER MATERIAL Sand	

TOP OF CASING	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION ⁽¹⁾ , NOTES	DEPTH (FT) ⁽²⁾
		0			
TOP OF SEAL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	<p>The diagram illustrates the well's vertical structure. From top to bottom: a Manhole Cover at the surface; a Solid Riser extending 0.5 feet down; a layer of Grout extending from 0.5 feet to 1.5 feet depth; a Screen extending from 2 feet to 12 feet depth; and Sand backfill extending from 1.5 feet to 12 feet depth. The well is shown as a vertical shaft within a larger casing.</p>	Ground Surface	0.0
TOP OF FILTER	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			0.50
TOP OF SCREEN	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			2
BOTTOM OF WELL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			12
SCREEN LENGTH		LENGTH (ft)			10
SLOT SIZE	0.01-inch				
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
21.59	4/11/2018	4.1			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			12.0

PROJECT 4650 Broadway	PROJECT NO. 170505502	
LOCATION Manhattan	ELEVATION AND DATUM El. 25.75 feet NAVD88	
DRILLING AGENCY Eastern Environmental Solutions, Inc.	DATE STARTED 4/10/2018	DATE FINISHED 4/10/2018
DRILLING EQUIPMENT Geoprobe 6610DT	DRILLER Edward Gallo	
SIZE AND TYPE OF BIT 2-inch diameter macrocore direct push	INSPECTORS Kevin Garrett	

METHOD OF INSTALLATION
Eastern advanced a 2-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 15 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 1-inch diameter well was constructed of 10 feet of 0.01-slot screen set from 5 to 15 feet below cellar grade and 5 feet of solid PVC riser from 0 to 5 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 2 feet above the top of the screen followed by a bentonite seal to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.

METHOD OF WELL DEVELOPMENT
The well was pumped using a peristaltic pump until the discharge water was clear. About 5.00 gallons of water was pumped from the well during development.

TYPE OF CASING Sch 40 PVC	DIAMETER 1-inch	TYPE OF BACKFILL MATERIAL Sand
TYPE OF SCREEN Sch 40 PVC	DIAMETER 1-inch	TYPE OF SEAL MATERIAL Grout
BOREHOLE DIAMETER 2-inch	TYPE OF FILTER MATERIAL Sand	

TOP OF CASING	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION ⁽¹⁾ , NOTES	DEPTH (FT) ⁽²⁾
		0			
TOP OF SEAL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	<p>The diagram illustrates the well's vertical structure. At the top is a Manhole Cover. Below it is a Solid Riser extending to a depth of 0.5 feet. From 0.5 feet to 3 feet depth, the well is filled with Grout. From 3 feet to 5 feet depth, a Screen is installed. From 5 feet to 15 feet depth, the well is filled with Sand. The bottom of the well is at a depth of 15 feet.</p>	Ground Surface	0.0
TOP OF FILTER	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			0.50
TOP OF SCREEN	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			5
BOTTOM OF WELL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			15
SCREEN LENGTH		LENGTH (ft)			10
SLOT SIZE	0.01-inch				
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
21.25	4/11/2018	4.5			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			15.0

PROJECT 4650 Broadway	PROJECT NO. 170505502	
LOCATION Manhattan	ELEVATION AND DATUM El. 25.61 feet NAVD88	
DRILLING AGENCY Eastern Environmental Solutions, Inc.	DATE STARTED 4/10/2018	DATE FINISHED 4/10/2018
DRILLING EQUIPMENT Geoprobe 6610DT	DRILLER Edward Gallo	
SIZE AND TYPE OF BIT 2-inch diameter macrocore direct push	INSPECTORS Kevin Garrett	

METHOD OF INSTALLATION
 Eastern advanced a 2-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 15 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 1-inch diameter well was constructed of 10 feet of 0.01-slot screen set from 5 to 15 feet below cellar grade and 5 feet of solid PVC riser from 0 to 5 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 2 feet above the top of the screen followed by a bentonite seal to grade surface. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.

METHOD OF WELL DEVELOPMENT
 The well was pumped using a peristaltic pump until the discharge water was clear. About 5.00 gallons of water was pumped from the well during development.

TYPE OF CASING Sch 40 PVC	DIAMETER 1-inch	TYPE OF BACKFILL MATERIAL Sand
TYPE OF SCREEN Sch 40 PVC	DIAMETER 1-inch	TYPE OF SEAL MATERIAL Grout
BOREHOLE DIAMETER 2-inch	TYPE OF FILTER MATERIAL Sand	

TOP OF CASING	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION ⁽¹⁾ , NOTES	DEPTH (FT) ⁽²⁾
		0			
TOP OF SEAL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	<p>The diagram illustrates the well's vertical structure. At the top is a Manhole Cover. Below it is a Solid Riser extending to a depth of 0.5 feet. From 0.5 feet to 3 feet depth, the well is filled with Grout. From 3 feet to 5 feet depth, there is a Screen. From 5 feet to 15 feet depth, the annulus is filled with Sand. The bottom of the well is at 15 feet depth.</p>	Ground Surface	0.0
TOP OF FILTER	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			0.50
TOP OF SCREEN	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			5
BOTTOM OF WELL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			15
SCREEN LENGTH		LENGTH (ft)			10
SLOT SIZE	0.01-inch				
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
20.91	4/11/2018	4.7			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			15.0

PROJECT 4650 Broadway	PROJECT NO. 170505502	
LOCATION Manhattan	ELEVATION AND DATUM El. 25.57 feet NAVD88	
DRILLING AGENCY Eastern Environmental Solutions, Inc.	DATE STARTED 4/10/2018	DATE FINISHED 4/10/2018
DRILLING EQUIPMENT Geoprobe 6610DT	DRILLER Edward Gallo	
SIZE AND TYPE OF BIT 2-inch diameter macrocore direct push	INSPECTORS Kevin Garrett	

METHOD OF INSTALLATION
 Eastern advanced a 2-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 15 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 1-inch diameter well was constructed of 10 feet of 0.01-slot screen set from 5 to 15 feet below cellar grade and 5 feet of solid PVC riser from 0 to 5 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 2 feet above the top of the screen followed by a bentonite seal to grade surface. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.

METHOD OF WELL DEVELOPMENT
 The well was pumped using a peristaltic pump until the discharge water was clear. About 5.00 gallons of water was pumped from the well during development.

TYPE OF CASING Sch 40 PVC	DIAMETER 1-inch	TYPE OF BACKFILL MATERIAL Sand
TYPE OF SCREEN Sch 40 PVC	DIAMETER 1-inch	TYPE OF SEAL MATERIAL Grout
BOREHOLE DIAMETER 2-inch		TYPE OF FILTER MATERIAL Sand

TOP OF CASING	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION ⁽¹⁾ , NOTES	DEPTH (FT) ⁽²⁾
		0			
TOP OF SEAL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	<p>The diagram illustrates the well's vertical structure. From top to bottom: a Manhole Cover at the surface; a Solid Riser extending 0.5 feet below the surface; a 3-foot section of Grout; a Screen section extending from 5 feet to 15 feet depth; and Sand backfill from 2 feet above the screen to the surface. The well is shown as a vertical shaft with various materials and components labeled.</p>	Ground Surface	0.0
TOP OF FILTER	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			0.50
TOP OF SCREEN	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			
BOTTOM OF WELL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			
SCREEN LENGTH		LENGTH (ft)			3.0
SLOT SIZE	0.01-inch				5.0
					15.0
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
20.87	4/11/2018	4.7			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			

PROJECT 4650 Broadway	PROJECT NO. 170505502	
LOCATION Manhattan	ELEVATION AND DATUM El. 25.67 feet NAVD88	
DRILLING AGENCY Eastern Environmental Solutions, Inc.	DATE STARTED 4/10/2018	DATE FINISHED 4/10/2018
DRILLING EQUIPMENT Geoprobe 6610DT	DRILLER Edward Gallo	
SIZE AND TYPE OF BIT 2-inch diameter macrocore direct push	INSPECTORS Kevin Garrett	

METHOD OF INSTALLATION
 Eastern advanced a 2-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 15 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 1-inch diameter well was constructed of 10 feet of 0.01-slot screen set from 6 to 16 feet below cellar grade and 5 feet of solid PVC riser from 0 to 6 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 2 feet above the top of the screen followed by a bentonite seal to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.

METHOD OF WELL DEVELOPMENT
 The well was pumped using a peristaltic pump until the discharge water was clear. About 5.00 gallons of water was pumped from the well during development.

TYPE OF CASING Sch 40 PVC	DIAMETER 1-inch	TYPE OF BACKFILL MATERIAL Sand
TYPE OF SCREEN Sch 40 PVC	DIAMETER 1-inch	TYPE OF SEAL MATERIAL Grout
BOREHOLE DIAMETER 2-inch	TYPE OF FILTER MATERIAL Sand	

TOP OF CASING	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION ⁽¹⁾ , NOTES	DEPTH (FT) ⁽²⁾
		0			
TOP OF SEAL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	<p>The diagram illustrates the well's vertical structure. At the top is a Manhole Cover. Below it is a Solid Riser extending to a depth of 4 feet. From 4 feet to 6 feet depth, the well is filled with Grout. From 6 feet to 16 feet depth, the well is filled with Sand. A Screen is located between the 6-foot and 16-foot depths. The bottom of the well is at 16 feet depth.</p>	Ground Surface	0.0
TOP OF FILTER	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			0.50
TOP OF SCREEN	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			6
BOTTOM OF WELL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)			16
SCREEN LENGTH		LENGTH (ft)			10
SLOT SIZE	0.01-inch				
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
20.77	4/11/2018	4.9			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			16.0

PROJECT 4650 Broadway	PROJECT NO. 170505502	
LOCATION Manhattan	ELEVATION AND DATUM El. 25.42 feet NAVD88	
DRILLING AGENCY Eastern Environmental Solutions, Inc.	DATE STARTED 4/11/2018	DATE FINISHED 4/11/2018
DRILLING EQUIPMENT Geoprobe 6610DT	DRILLER Edward Gallo	
SIZE AND TYPE OF BIT 2-inch diameter macrocore direct push	INSPECTORS Kevin Garrett	

METHOD OF INSTALLATION
 Eastern advanced a 2-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 15 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 1-inch diameter well was constructed of 10 feet of 0.01-slot screen set from 5 to 15 feet below cellar grade and 5 feet of solid PVC riser from 0 to 5 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 2 feet above the top of the screen followed by a bentonite seal to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.

METHOD OF WELL DEVELOPMENT
 The well was pumped using a peristaltic pump until the discharge water was clear. About 5.00 gallons of water was pumped from the well during development.

TYPE OF CASING Sch 40 PVC	DIAMETER 1-inch	TYPE OF BACKFILL MATERIAL Sand
TYPE OF SCREEN Sch 40 PVC	DIAMETER 1-inch	TYPE OF SEAL MATERIAL Grout
BOREHOLE DIAMETER 2-inch	TYPE OF FILTER MATERIAL Sand	

TOP OF CASING	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION ⁽¹⁾ , NOTES	DEPTH (FT) ⁽²⁾
		0			
TOP OF SEAL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)	<p>The diagram illustrates the well's vertical structure. From top to bottom: a Manhole Cover at the surface; a Solid Riser extending 0.5 feet below ground; a layer of Grout; a Screen section extending from 5 feet to 15 feet depth; and a Sand backfill section extending from 2 feet above the screen to the bottom of the well at 15 feet depth.</p>	Ground Surface	0.0
TOP OF FILTER	ELEVATION (ft) ⁽³⁾	DEPTH (ft)		0.50	
TOP OF SCREEN	ELEVATION (ft) ⁽³⁾	DEPTH (ft)		5	
BOTTOM OF WELL	ELEVATION (ft) ⁽³⁾	DEPTH (ft)		15	
SCREEN LENGTH		LENGTH (ft)		10	
SLOT SIZE	0.01-inch				
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
20.62	4/11/2018	4.8			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			
ELEVATION	DATE	DEPTH TO WATER (ft) ⁽³⁾			15.0

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. RMW16

PROJECT		PROJECT NO.																			
4650 Broadway		1705505501																			
LOCATION		ELEVATION AND DATUM																			
New York, NY		NA																			
DRILLING AGENCY		DATE STARTED	DATE FINISHED																		
Eastern Environmental Solutions, Inc.		7/26/2018	7/27/2018																		
DRILLING EQUIPMENT		DRILLER																			
Geoprobe® 6610 DT		John Zinsir																			
SIZE AND TYPE OF BIT		INSPECTOR																			
2-inch Direct Push		Dina Palazzolo																			
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)																			
3.75-inch		Overburden																			
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL																			
PVC	2-inch	Clean Cuttings																			
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL																		
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite																		
METHOD OF INSTALLATION																					
Eastern advanced a 3.75-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 15 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 2-inch diameter well was constructed of 10 feet of 0.02-slot screen set from 3 to 13 feet below cellar grade and 3 feet of solid PVC riser from 0 to 3 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 1 feet above the top of the screen followed by a bentonite chips to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.																					
WELL DEVELOPMENT DATA																					
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Submersible																		
DRILLER OR LANGAN	Driller	MAX PUMP RATE	1 LPM																		
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	30 gal																		
Well developed from 14:20-14:50 until purged groundwater was no longer turbid.																					
TOP OF CASING	ELEVATION	DEPTH (ft)	<table border="1"> <thead> <tr> <th colspan="2">WELL DETAILS</th> <th>SUMMARY SOIL CLASSIFICATION</th> <th>DEPTH (FT)</th> </tr> </thead> <tbody> <tr> <td>Manhole Cover</td> <td></td> <td>See Boring Log RSB16</td> <td>0.0</td> </tr> <tr> <td>Solid Riser</td> <td>Bentonite</td> <td rowspan="2">some coarse grained sand</td> <td rowspan="2">2.0 3.00</td> </tr> <tr> <td></td> <td>Sand</td> </tr> <tr> <td>Screen</td> <td></td> <td></td> <td>13.00</td> </tr> </tbody> </table>	WELL DETAILS		SUMMARY SOIL CLASSIFICATION	DEPTH (FT)	Manhole Cover		See Boring Log RSB16	0.0	Solid Riser	Bentonite	some coarse grained sand	2.0 3.00		Sand	Screen			13.00
WELL DETAILS		SUMMARY SOIL CLASSIFICATION		DEPTH (FT)																	
Manhole Cover		See Boring Log RSB16		0.0																	
Solid Riser	Bentonite	some coarse grained sand		2.0 3.00																	
	Sand																				
Screen				13.00																	
	NA	0																			
TOP OF SEAL	ELEVATION	DEPTH (ft)																			
	NA	0.5																			
TOP OF FILTER	ELEVATION	DEPTH (ft)																			
	NA	3																			
TOP OF SCREEN	ELEVATION	DEPTH (ft)																			
	NA	3.0																			
BOTTOM OF BORING	ELEVATION	DEPTH (ft)																			
	NA	13																			
SCREEN LENGTH		10 feet																			
SLOT SIZE	No. 20 Slot; 0.020 Inches																				
GROUNDWATER ELEVATIONS																					
ELEVATION	DATE	DEPTH TO WATER																			
	7/27/2018	4.54 ft																			
ELEVATION	DATE	DEPTH TO WATER																			
ELEVATION	DATE	DEPTH TO WATER																			
ELEVATION	DATE	DEPTH TO WATER																			
ELEVATION	DATE	DEPTH TO WATER																			
ELEVATION	DATE	DEPTH TO WATER																			

LANGAN Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. RMW18

PROJECT		PROJECT NO.	
4650 Broadway		1705505501	
LOCATION		ELEVATION AND DATUM	
New York, NY		NA	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
Eastern Environmental Solutions, Inc.		7/27/2018	7/30/2018
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 6610 DT		John Zinsir	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Dina Palazzolo	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
3.75-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	Clean Cuttings	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
Eastern advanced a 3.75-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 13 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 2-inch diameter well was constructed of 10 feet of 0.02-slot screen set from 3 to 13 feet below cellar grade and 3 feet of solid PVC riser from 0 to 3 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 1 feet above the top of the screen followed by a bentonite chips to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Submersible
DRILLER OR LANGAN	Driller	MAX PUMP RATE	1 LPM
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	30 gal
Well developed from 9:50-10:20 until purged groundwater was no longer turbid.			
TOP OF CASING	ELEVATION	DEPTH (ft)	WELL DETAILS
	NA	0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	Manhole Cover
	NA	0.5	
TOP OF FILTER	ELEVATION	DEPTH (ft)	Solid Riser
	NA	3	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	Bentonite
	NA	3.0	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	Sand
	NA	13	
SCREEN LENGTH	10 feet		some coarse grained sand
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	Screen
	7/30/2018	4.8 ft	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
Summary Soil Classification			
			0.0
			0.50
			2.0
			3.0
			13.0
LANGAN Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. RMW28

PROJECT		PROJECT NO.	
4650 Broadway		1705505501	
LOCATION		ELEVATION AND DATUM	
New York, NY		NA	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
Eastern Environmental Solutions, Inc.		7/30/2018	7/31/2018
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 6610 DT		John Zinsir	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Dina Palazzolo	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
3.75-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	Clean cuttings	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
<p>Eastern advanced a 3.75-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 14 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 2-inch diameter well was constructed of 10 feet of 0.02-slot screen set from 4 to 14 feet below cellar grade and 4 feet of solid PVC riser from 0 to 4 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 1 feet above the top of the screen followed by a bentonite chips to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.</p>			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Submersible
DRILLER OR LANGAN	Driller	MAX PUMP RATE	1 LPM
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	30 gal
Well developed from 9:25-9:50 until purged groundwater was no longer turbid.			
TOP OF CASING	ELEVATION	DEPTH (ft)	WELL DETAILS
	NA	0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	NA	0.5	
TOP OF FILTER	ELEVATION	DEPTH (ft)	some coarse grained sand
	NA	4	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	3.0 4.0
	NA	4	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	14.0
	NA	14	
SCREEN LENGTH		10 feet	
SLOT SIZE		No. 20 Slot; 0.020 Inches	
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
	7/31/2018	5.15 ft	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
LANGAN Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. RMW30

PROJECT		PROJECT NO.	
4650 Broadway		1705505501	
LOCATION		ELEVATION AND DATUM	
New York, NY		NA	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
Eastern Environmental Solutions, Inc.		8/2/2018	8/2/2018
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 420 M		John Zinsir	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Dina Palazzolo	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
3.75-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	Clean Cuttings	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
<p>Eastern advanced a 3.75-inch diameter steel casing fitted with an expendable steel plug to support a borehole opening for installation of the PVC well. The casing was advanced to about 14 below cellar grade and the well was installed in the open annulus and the steel plug was pushed out of the bottom of the casing. The 2-inch diameter well was constructed of 10 feet of 0.02-slot screen set from 4 to 14 feet below cellar grade and 4 feet of solid PVC riser from 0 to 4 feet below cellar grade. Sand was used to backfill the annulus to a depth of about 1 feet above the top of the screen followed by a bentonite chips to about 6 inches below cellar grade. The well was capped with a removable J-plug and finished with a bolt-down flush-mount manhole cover.</p>			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Submersible
DRILLER OR LANGAN	Driller	MAX PUMP RATE	1 LPM
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	30 gal
Well developed from 11:10-11:40 until purged groundwater was no longer turbid.			
TOP OF CASING	ELEVATION	DEPTH (ft)	WELL DETAILS
	NA	0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	NA	2	
TOP OF FILTER	ELEVATION	DEPTH (ft)	See Boring Log RSB30 some coarse grained sand
	NA	4	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	2.00 3.0 4.0
	NA	4	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	14.0
	NA	14	
SCREEN LENGTH	10 feet		
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
	8/2/2018	4.8 ft	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
LANGAN Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.			
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

APPENDIX D
GROUNDWATER SAMPLING LOGS

GROUNDWATER SAMPLE FIELD INFORMATION FORM

Site: 4650 Broadway	Well#/Location: RMW04	Job No.: 170505502
Date: 4/18/2018	Weather: Indoors	Sampling Personnel: W. Kim

Well Information	
Sample ID	RMW04_041818
Well Depth (ft.)	12
Screened Interval (ft.)	2 to 12
Casing Elevation (msl)	25.69
Casing Diameter (in)	1
Depth to Water (ft.)	4.31
Water Elevation (msl)	21.59
Casing Volume (gal)	1.3
PID/FID Reading (ppm)	41.7

Purging Information	
Purging Method	Low-flow (peri-pump)
Purging Rate (l/m; gpm)	0.070833
Start Purge Time	11:20
End Purge Time	12:20
Volume Purged (gal)	4.25

Sampling Information	
Sampling Method	Low-flow (peri-pump)
Start Sampling Time	12:25
End Sampling Time	12:35
Depth Before Sampling (ft.)	--
Number Bottles Collected	19

Sample Time	Parameters							Purged Volume (gallons)
	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Temp (°C)	Depth to Water (ft.)	
11:25	8.01	0.77	0.00	-11.00	328.00	13	-	0.25
11:30	8.19	0.72	0.00	-15.00	233.00	13	-	0.50
11:35	8.38	0.70	0.00	-13.00	154.00	13.07	-	0.75
11:40	8.37	0.69	0.00	-10.00	257.00	12.86	-	1.25
11:45	8.33	0.86	0.00	-9.00	800.00	12.98	-	1.75
11:50	8.51	0.84	0.00	-18.00	708.00	12.94	-	2.00
11:55	8.51	0.91	0.00	-22.00	241.00	12.93	-	2.25
12:00	8.48	0.97	0.00	-22.00	140.00	12.89	-	3.25
12:05	8.39	1.07	0.00	-25.00	102.00	12.9	-	3.50
12:10	8.38	1.08	0.00	-24.00	89.40	12.9	-	3.75
12:15	8.37	1.09	0.00	-24.00	97.40	12.9	-	4.00
12:20	8.36	1.100	0.00	-24.00	103.00	12.9	-	4.25
12:25	Sampling							

Notes/Remarks	
Stability PH - ± 0.1 unit Specific Conductance - ± 3% Temperature - ± 3% Dissolved Oxygen - ±10% above 0.5 mg/L Turbidity - ± 10% above 5 NTU ORP/Eh - ±10 millivolts Maximum flow rate - <0.5 L/m or 0.13 gpm Maximum drawdown - <0.33 feet	No IP Probe

Remember: Battery Connections - **RED** is **POSITIVE** and **BLACK** is **NEGATIVE**

GROUNDWATER SAMPLE FIELD INFORMATION FORM

Site: 4650 Broadway	Well#/Location: RMW05	Job No.: 170505502
Date: 4/19/2018	Weather: Indoors	Sampling Personnel: A Duchesne

Well Information	
Sample ID	RMW05_041918
Well Depth (ft.)	15
Screened Interval (ft.)	5 to 15
Casing Elevation (msl)	25.75
Casing Diameter (in)	1
Depth to Water (ft.)	4.67
Water Elevation (msl)	21.25
Casing Volume (gal)	1.7
PID/FID Reading (ppm)	0

Purging Information	
Purging Method	Low-flow (peri-pump)
Purging Rate (l/m; gpm)	0.053846
Start Purge Time	15:25
End Purge Time	16:30
Volume Purged (gal)	3.5

Sampling Information	
Sampling Method	Low-flow (peri-pump)
Start Sampling Time	16:35
End Sampling Time	16:45
Depth Before Sampling (ft.)	4.61
Number Bottles Collected	19

Sample Time	Parameters							Purged Volume (gallons)
	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Temp (°C)	Depth to Water (ft.)	
15:30	6.55	22.40	1.36	40.00	>1000	13.47	-	0.50
15:35	6.52	23.30	0.96	28.00	0.00	13.59	-	0.50
15:40	6.52	23.40	0.52	17.00	0.00	13.64	-	0.75
15:45	6.51	23.50	0.19	8.00	0.00	13.66	-	1.00
15:50	6.51	23.70	0.08	1.00	0.00	13.59	-	1.25
15:55	6.51	23.50	0.00	-3.00	0.00	13.56	-	1.75
16:00	6.55	23.30	0.23	-3.00	0.00	13.54	-	2.00
16:05	6.52	23.30	0.00	-11.00	0.00	13.55	-	2.25
16:10	6.51	23.30	0.00	-15.00	755.00	13.56	-	2.50
16:15	6.51	23.40	0.00	-20.00	>1000	13.55	-	2.75
16:20	6.51	23.40	0.00	-24.00	>1000	13.57	-	3.00
16:25	6.51	23.40	0.00	-28.00	>1000	13.57	-	3.25
16:30	6.51	23.50	0.00	-30.00	>1000	13.57	-	3.5
16:35	Sampling							

Notes/Remarks	
<p>Stability</p> <p>PH - ± 0.1 unit</p> <p>Specific Conductance - ± 3%</p> <p>Temperature - ± 3%</p> <p>Dissolved Oxygen - ±10% above 0.5 mg/L</p> <p>Turbidity - ± 10% above 5 NTU</p> <p>ORP/Eh - ±10 millivolts</p> <p>Maximum flow rate - <0.5 L/m or 0.13 gpm</p> <p>Maximum drawdown - <0.33 feet</p>	<p>Purge water initially greenish-brown</p> <p>1 hour of purging and turbidity readings did not stabilize</p> <p>Final depth at 4.61</p>

Remember: Battery Connections - **RED** is **POSITIVE** and **BLACK** is **NEGATIVE**

GROUNDWATER SAMPLE FIELD INFORMATION FORM

Site: 4650 Broadway	Well#/Location: RMW07	Job No.: 170505502
Date: 4/19/2018	Weather: Indoors	Sampling Personnel: A. Duchesne

Well Information	
Sample ID	RMW07_041918
Well Depth (ft.)	15
Screened Interval (ft.)	5 to 15
Casing Elevation (msl)	25.57
Casing Diameter (in)	1
Depth to Water (ft.)	4.79
Water Elevation (msl)	20.87
Casing Volume (gal)	1.7
PID/FID Reading (ppm)	0

Purging Information	
Purging Method	Low-flow (peri-pump)
Purging Rate (l/m; gpm)	0.06
Start Purge Time	12:25
End Purge Time	13:40
Volume Purged (gal)	4.5

Sampling Information	
Sampling Method	Low-flow (peri-pump)
Start Sampling Time	13:45
End Sampling Time	13:55
Depth Before Sampling (ft.)	4.73
Number Bottles Collected	19

Sample Time	Parameters							Purged Volume (gallons)
	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Temp (°C)	Depth to Water (ft.)	
12:30	6.90	6.89	10.09	-80.00	>1000	13.85	-	0.50
12:35	6.90	6.97	1.50	-85.00	805.00	14.16	-	0.50
12:40	6.90	7.07	0.09	-83.00	599.00	14.34	-	0.75
12:45	6.89	7.25	0.00	-81.00	379.00	14.49	-	1.00
12:50	6.88	7.42	0.00	-79.00	211.00	14.53	-	1.25
12:55	6.87	7.58	0.00	-79.00	127.00	14.59	-	1.65
13:00	6.86	7.63	0.00	-81.00	97.50	14.6	-	2.00
13:05	6.90	7.66	0.00	-80.00	91.20	14.63	-	2.50
13:10	6.86	7.68	0.00	-82.00	58.90	14.65	-	2.75
13:15	6.86	7.67	0.00	-85.00	55.10	14.64	-	3.00
13:20	6.86	7.64	0.00	-91.00	58.40	14.65	-	3.25
13:25	6.86	7.62	0.00	-94.00	49.80	14.6	-	3.5
13:30	6.86	7.57	0.00	-96.00	62.70	14.67	-	4
13:35	6.86	7.53	0.00	-98.00	63.00	14.67	-	4.25
13:40	6.86	7.47	0.00	-102.00	63.00	14.68	-	4.5
13:40	Sampling							

Notes/Remarks	
Stability	
PH - ± 0.1 unit	Purge water initially greenish-brown
Specific Conductance - ± 3%	Final depth at 4.73
Temperature - ± 3%	
Dissolved Oxygen - ±10% above 0.5 mg/L	
Turbidity - ± 10% above 5 NTU	
ORP/Eh - ±10 millivolts	
Maximum flow rate - <0.5 L/m or 0.13 gpm	
Maximum drawdown - <0.33 feet	

Remember: Battery Connections - **RED** is **POSITIVE** and **BLACK** is **NEGATIVE**

GROUNDWATER SAMPLE FIELD INFORMATION FORM

Site: 4650 Broadway	Well#/Location: RMW16	Job No.: 170505502
Date: 8/7/2018	Weather: Indoors	Sampling Personnel: D. Palazzolo

Well Information	
Sample ID	RMW16_080718
Well Depth (ft.)	13
Screened Interval (ft.)	3 to 13
Casing Elevation (msl)	N/A
Casing Diameter (in)	2
Depth to Water (ft.)	4.54
Water Elevation (msl)	N/A
Casing Volume (gal)	5.5
PID/FID Reading (ppm)	56

Purging Information	
Purging Method	Low-flow (peri-pump)
Purging Rate (l/m; gpm)	0.066667
Start Purge Time	10:20
End Purge Time	11:35
Volume Purged (gal)	11

Sampling Information	
Sampling Method	Low-flow (peri-pump)
Start Sampling Time	11:35
End Sampling Time	11:55
Depth Before Sampling (ft.)	--
Number Bottles Collected	19

Parameters								
Sample Time	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Temp (°C)	Depth to Water (ft.)	Purged Volume (gallons)
10:20	7.36	4.46	0.00	4.00	701.00	19.06	5.30	0.75
10:25	7.42	3.58	0.00	-9.00	770.00	19.62	5.10	1.50
10:30	7.39	3.36	0.00	-8.00	420.00	19.86	5.02	2.25
10:35	7.40	3.23	0.00	-9.00	68.20	19.93	5.03	3.00
10:40	7.40	3.19	0.00	-9.00	48.30	19.95	4.97	3.75
10:45	7.38	3.22	0.00	-8.00	137.00	20.14	4.95	4.50
10:50	7.37	3.38	0.00	-8.00	652.00	19.87	4.89	5.00
10:55	7.37	3.28	0.00	-6.00	742.00	19.93	4.93	5.75
11:00	7.37	3.25	0.00	-6.00	490.00	19.95	4.94	6.50
11:05	7.37	3.23	0.00	-5.00	195.00	19.98	4.95	7.25
11:10	7.37	3.22	0.00	-6.00	170.00	20.06	4.91	8
11:15	7.36	3.24	0.00	-6.00	171.00	20.05	4.91	8.5
11:20	7.37	3.28	0.00	-7.00	85.20	20.06	4.90	9.25
11:25	7.38	3.25	0	-5	58.8	20.14	4.93	10
11:30	7.36	3.25	0.00	-6.00	75.40	20.11	4.92	10.5
11:35	7.36	3.25	0	-4	56.1	20.13	4.9	11

Notes/Remarks	
Stability PH - ± 0.1 unit Specific Conductance - ± 3% Temperature - ± 3% Dissolved Oxygen - ±10% above 0.5 mg/L Turbidity - ± 10% above 5 NTU ORP/Eh - ±10 millivolts Maximum flow rate - <0.5 L/m or 0.13 gpm Maximum drawdown - <0.33 feet	Petroluem-like odors

Remember: Battery Connections - **RED** is **POSITIVE** and **BLACK** is **NEGATIVE**

APPENDIX E
SOIL VAPOR CONSTRUCTION AND SAMPLE LOGS

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: RSV01_040918

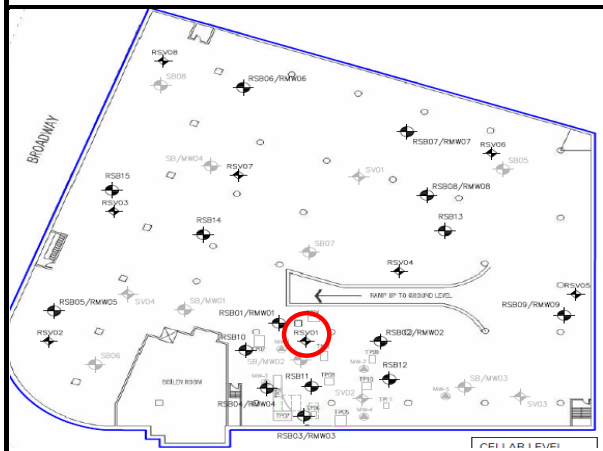
PROJECT: 4650 Broadway	PROJECT NO.: 170505502	
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	INSTALLATION DATE STARTED: 4/9/2018	DATE FINISHED: 4/9/2018
INSTALLATION FOREMAN: Edward Gallo	SAMPLE DATE STARTED: 4/9/2018	DATE FINISHED: 4/9/2018
INSTALLATION EQUIPMENT: Bosch hand drill	TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister	
INSPECTOR: Kevin Garrett	SAMPLER: Kevin Garrett	
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors	

METHOD OF INSTALLATION AND PURGING:
Advance a Bosch hand drill 2.5 feet below grade surface. Install 2-inch silicone probe, backfill with sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: Silicone 3/16 ID X 3/8 OD	TYPE OF MATERIAL ABOVE SEAL: None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch soil vapor probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 1-inch	FILTER PACK MATERIAL (Sand or Glass Beads): Sand

		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES	
PURGE VOLUME (L): 5.00					
PURGE FLOW RATE (ML/MIN): 0.2			SURFACE		
PID AFTER PURGE (PPM): 0.0			SURFACE		
HELIUM TEST IN BUCKET(%): 17.0			Seal	0	Bentonite Seal
HELIUM TEST IN TUBE (PPM): 0.0			Top of Pack	0.33	
SAMPLE START DATE/TIME: 4/9/2019 12:34					
SAMPLE STOP DATE/TIME: 4/9/2018 14:35					
TOTAL SAMPLE TIME (MIN): 121					
FLOW RATE (L/MIN): 0.018					
VOLUME OF SAMPLE (LITERS): 2.7					
PID AFTER SAMPLE (PPM): 5					
SAMPLE MOISTURE CONTENT: N/A					
CAN SERIAL NUMBER: 237					
REGULATOR SERIAL NUMBER: 931					
CAN START VACUUM PRESS. (" HG): -30.19					
CAN STOP VACUUM PRESS. (" HG): -6.06		Probe	2.5	2-inch silicone probe	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: RSV02_041018

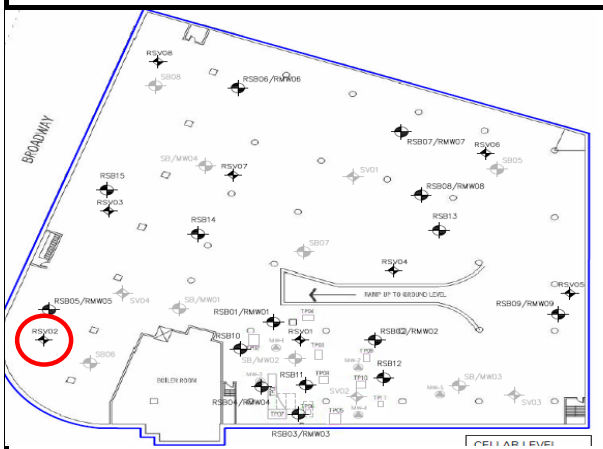
PROJECT: 4650 Broadway	PROJECT NO.: 170505502	
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	INSTALLATION DATE STARTED: 4/9/2018	DATE FINISHED: 4/9/2018
INSTALLATION FOREMAN: Edward Gallo	SAMPLE DATE STARTED: 4/10/2018	DATE FINISHED: 4/10/2018
INSTALLATION EQUIPMENT: Geoprobe 6610DT	TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister	
INSPECTOR: Kevin Garrett	SAMPLER: Kevin Garrett	
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors	

METHOD OF INSTALLATION AND PURGING:
Advance a Geoprobe 6610 DT 3 feet below grade surface. Install 2-inch silicone probe, backfill with sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: Silicone 3/16 ID X 3/8 OD	TYPE OF MATERIAL ABOVE SEAL: None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch soil vapor probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 2-inches	FILTER PACK MATERIAL (Sand or Glass Beads): Sand

	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES	
PURGE VOLUME (L): 5.00				
PURGE FLOW RATE (ML/MIN): 0.2		SURFACE		
PID AFTER PURGE (PPM): 0.0		SURFACE		
HELIUM TEST IN BUCKET(%): 16.6		Seal	0	Bentonite Seal
HELIUM TEST IN TUBE (PPM): 0.0		Top of Pack	0.5	
SAMPLE START DATE/TIME: 4/10/2019 9:02				
SAMPLE STOP DATE/TIME: 4/10/2019 11:02				
TOTAL SAMPLE TIME (MIN): 120				
FLOW RATE (L/MIN): 0.018				
VOLUME OF SAMPLE (LITERS): 2.7				
PID AFTER SAMPLE (PPM): 0				
SAMPLE MOISTURE CONTENT: N/A				
CAN SERIAL NUMBER: 2430				
REGULATOR SERIAL NUMBER: 972				
CAN START VACUUM PRESS. (" HG): -30.32				
CAN STOP VACUUM PRESS. (" HG): -6.44	Probe	3	2-inch silicone probe	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: RSV03_041018

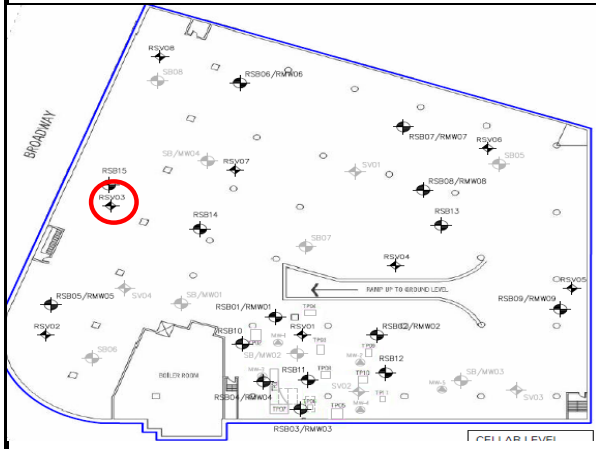
PROJECT: 4650 Broadway	PROJECT NO.: 170505502
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: N/A
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	INSTALLATION DATE STARTED: 4/10/2018
INSTALLATION FOREMAN: Edward Gallo	DATE FINISHED: 4/10/2018
INSTALLATION EQUIPMENT: Geoprobe 6610DT	SAMPLE DATE STARTED: 4/10/2018
	DATE FINISHED: 4/10/2018
INSPECTOR: Kevin Garrett	TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister
POTENTIAL SAMPLE INTERFERENCES:	SAMPLER: Kevin Garrett
	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors

METHOD OF INSTALLATION AND PURGING:
Advance a Geoprobe 6610 DT 3 feet below grade surface. Install 2-inch silicone probe, backfill with sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: Silicone 3/16 ID X 3/8 OD	TYPE OF MATERIAL ABOVE SEAL: None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch soil vapor probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 2-inches	FILTER PACK MATERIAL (Sand or Glass Beads): Sand

		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES	
PURGE VOLUME (L): 5.00					
PURGE FLOW RATE (ML/MIN): 0.2			SURFACE		
PID AFTER PURGE (PPM): 0.0			SURFACE		
HELIUM TEST IN BUCKET(%): 20.0			Seal	0	Bentonite Seal
HELIUM TEST IN TUBE (PPM): 0.0			Top of Pack	0.5	
SAMPLE START DATE/TIME: 4/10/2019 11:12					
SAMPLE STOP DATE/TIME: 4/10/2019 13:16					
TOTAL SAMPLE TIME (MIN): 124					
FLOW RATE (L/MIN): 0.018					
VOLUME OF SAMPLE (LITERS): 2.7					
PID AFTER SAMPLE (PPM): 0					
SAMPLE MOISTURE CONTENT: N/A					
CAN SERIAL NUMBER: 334					
REGULATOR SERIAL NUMBER: 242					
CAN START VACUUM PRESS. (" HG): -30.58					
CAN STOP VACUUM PRESS. (" HG): -2.55			3	2-inch silicone probe	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: RSV04_041118

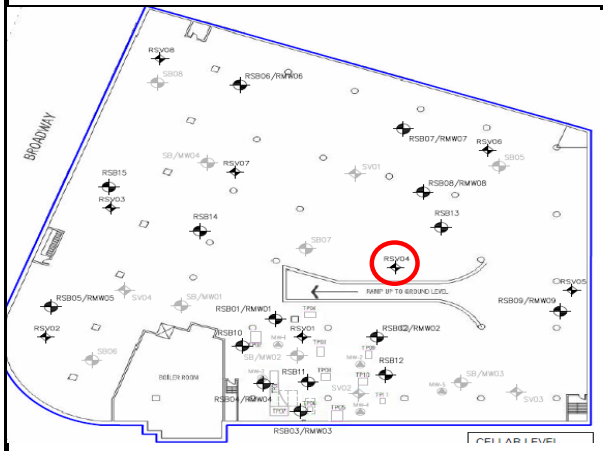
PROJECT: 4650 Broadway	PROJECT NO.: 170505502
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: N/A
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	INSTALLATION DATE STARTED: 4/10/2018
INSTALLATION FOREMAN: Edward Gallo	DATE FINISHED: 4/10/2018
INSTALLATION EQUIPMENT: Geoprobe 6610DT	SAMPLE DATE STARTED: 4/11/2018
	DATE FINISHED: 4/11/2018
INSPECTOR: Kevin Garrett	TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors

METHOD OF INSTALLATION AND PURGING:
Advance a Geoprobe 6610 DT 3 feet below grade surface. Install 2-inch silicone probe, backfill with sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: Silicone 3/16 ID X 3/8 OD	TYPE OF MATERIAL ABOVE SEAL: None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch soil vapor probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 2-inches	FILTER PACK MATERIAL (Sand or Glass Beads): Sand

		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES	
PURGE VOLUME (L): 5.00					
PURGE FLOW RATE (ML/MIN): 0.2			SURFACE		
PID AFTER PURGE (PPM): 0.0			SURFACE		
HELIUM TEST IN BUCKET(%): 16.7			Seal	0	Bentonite Seal
HELIUM TEST IN TUBE (PPM): 0.0			Top of Pack	0.5	
SAMPLE START DATE/TIME: 4/10/2019 7:37					
SAMPLE STOP DATE/TIME: 4/10/2019 9:37					
TOTAL SAMPLE TIME (MIN): 120					
FLOW RATE (L/MIN): 0.018					
VOLUME OF SAMPLE (LITERS): 2.7					
PID AFTER SAMPLE (PPM): 0					
SAMPLE MOISTURE CONTENT: N/A					
CAN SERIAL NUMBER: 2358					
REGULATOR SERIAL NUMBER: 745					
CAN START VACUUM PRESS. (" HG): -29.98					
CAN STOP VACUUM PRESS. (" HG): -5.2					
		Probe	3	2-inch silicone probe	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

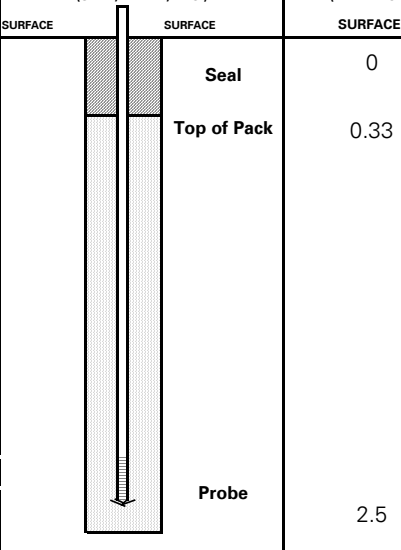
SOIL VAPOR SAMPLING LOG SHEET

Sample Number: RSV05_040918

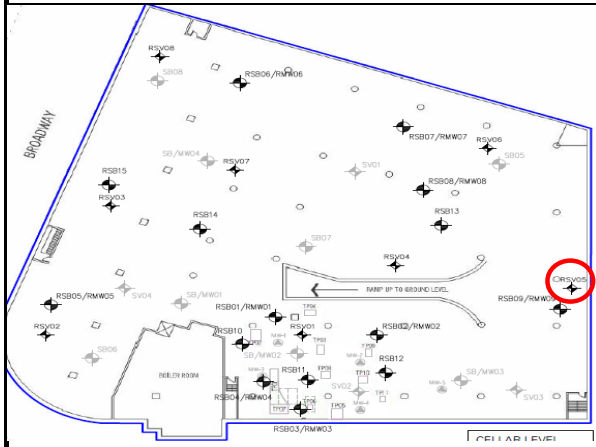
PROJECT: 4650 Broadway	PROJECT NO.: 170505502
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: N/A
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	INSTALLATION DATE STARTED: 4/9/2018 DATE FINISHED: 4/9/2018
INSTALLATION FOREMAN: Edward Gallo	SAMPLE DATE STARTED: 4/9/2018 DATE FINISHED: 4/9/2018
INSTALLATION EQUIPMENT: Bosch hand drill	TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister
INSPECTOR: Kevin Garrett	SAMPLER: Kevin Garrett
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors

METHOD OF INSTALLATION AND PURGING:
Advance a Bosch hand drill 2.5 feet below grade surface. Install 2-inch silicone probe, backfill with sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: Silicone 3/16 ID X 3/8 OD	TYPE OF MATERIAL ABOVE SEAL: None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch soil vapor probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 1-inch	FILTER PACK MATERIAL (Sand or Glass Beads): Sand

PURGE VOLUME (L):	5.00	IMPLANT/PROBE DETAILS		DEPTH	NOTES
		SURFACE	SURFACE		
PURGE FLOW RATE (ML/MIN):	0.2	(SEAL, FILTER, ETC.)			
PID AFTER PURGE (PPM):	0.0	Seal		0	Bentonite Seal
HELIUM TEST IN BUCKET(%):	13.0	Top of Pack		0.33	
HELIUM TEST IN TUBE (PPM):	0.0	Probe		2.5	Sand 2-inch silicone probe
SAMPLE START DATE/TIME:	4/9/2018 11:57				
SAMPLE STOP DATE/TIME:	4/9/2019 13:57				
TOTAL SAMPLE TIME (MIN):	120				
FLOW RATE (L/MIN):	0.018				
VOLUME OF SAMPLE (LITERS):	2.7				
PID AFTER SAMPLE (PPM):	0				
SAMPLE MOISTURE CONTENT:	N/A				
CAN SERIAL NUMBER:	2013				
REGULATOR SERIAL NUMBER:	14				
CAN START VACUUM PRESS. (" HG):	-30.27				
CAN STOP VACUUM PRESS. (" HG):	-3.8				

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: RSV06_041118

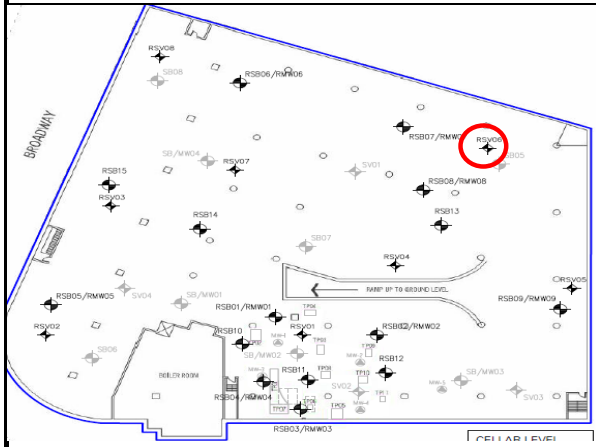
PROJECT: 4650 Broadway	PROJECT NO.: 170505502
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: N/A
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	INSTALLATION DATE STARTED: 4/10/2018
INSTALLATION FOREMAN: Edward Gallo	DATE FINISHED: 4/10/2018
INSTALLATION EQUIPMENT: Geoprobe 6610DT	SAMPLE DATE STARTED: 4/11/2018
	DATE FINISHED: 4/11/2018
INSPECTOR: Kevin Garrett	TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors

METHOD OF INSTALLATION AND PURGING:
Advance a Geoprobe 6610 DT 3 feet below grade surface. Install 2-inch silicone probe, backfill with sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: Silicone 3/16 ID X 3/8 OD	TYPE OF MATERIAL ABOVE SEAL: None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch soil vapor probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 2-inches	FILTER PACK MATERIAL (Sand or Glass Beads): Sand

		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES	
PURGE VOLUME (L):	5.00				
PURGE FLOW RATE (ML/MIN):	0.2		SURFACE	0	Bentonite Seal
PID AFTER PURGE (PPM):	0.0		SURFACE	0.33	
HELIUM TEST IN BUCKET(%):	16.0		Seal		
HELIUM TEST IN TUBE (PPM):	0.0		Top of Pack		
SAMPLE START DATE/TIME:	4/11/2018 8:34		Probe	3	Sand
SAMPLE STOP DATE/TIME:	4/11/2018 10:34				
TOTAL SAMPLE TIME (MIN):	120				
FLOW RATE (L/MIN):	0.018				
VOLUME OF SAMPLE (LITERS):	2.7				
PID AFTER SAMPLE (PPM):	0				
SAMPLE MOISTURE CONTENT:	N/A				
CAN SERIAL NUMBER:	502				
REGULATOR SERIAL NUMBER:	422				
CAN START VACUUM PRESS. (" HG):	-30.07				
CAN STOP VACUUM PRESS. (" HG):	-5.50				

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: RSV07_041118

PROJECT: 4650 Broadway	PROJECT NO.: 170505502
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: N/A
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	INSTALLATION DATE STARTED: 4/10/2018
INSTALLATION FOREMAN: Edward Gallo	DATE FINISHED: 4/10/2018
INSTALLATION EQUIPMENT: Geoprobe 6610DT	SAMPLE DATE STARTED: 4/11/2018
	DATE FINISHED: 4/11/2018
INSPECTOR: Kevin Garrett	TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors

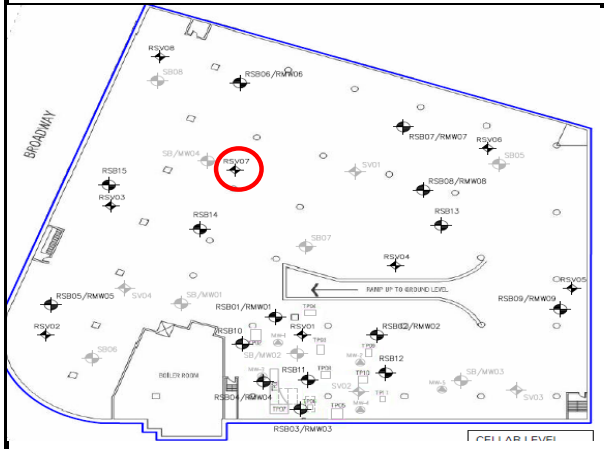
METHOD OF INSTALLATION AND PURGING:
Advance a Geoprobe 6610 DT 3 feet below grade surface. Install 2-inch silicone probe, backfill with sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: Silicone 3/16 ID X 3/8 OD	TYPE OF MATERIAL ABOVE SEAL: None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch soil vapor probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 2-inches	FILTER PACK MATERIAL (Sand or Glass Beads): Sand

PURGE VOLUME (L):	5.00
PURGE FLOW RATE (ML/MIN):	0.2
PID AFTER PURGE (PPM):	0.0
HELIUM TEST IN BUCKET(%):	19.3
HELIUM TEST IN TUBE (PPM):	0.0
SAMPLE START DATE/TIME:	4/11/2018 8:05
SAMPLE STOP DATE/TIME:	4/11/2018 10:05
TOTAL SAMPLE TIME (MIN):	120
FLOW RATE (L/MIN):	0.018
VOLUME OF SAMPLE (LITERS):	2.7
PID AFTER SAMPLE (PPM):	0
SAMPLE MOISTURE CONTENT:	N/A
CAN SERIAL NUMBER:	2311
REGULATOR SERIAL NUMBER:	593
CAN START VACUUM PRESS. (" HG):	-29.97
CAN STOP VACUUM PRESS. (" HG):	-6.40

	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
SURFACE	SURFACE		
Seal	Seal	0	Bentonite Seal
Top of Pack	Top of Pack	0.5	
Probe	Probe	3	Sand 2-inch silicone probe

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: RSV08_041118

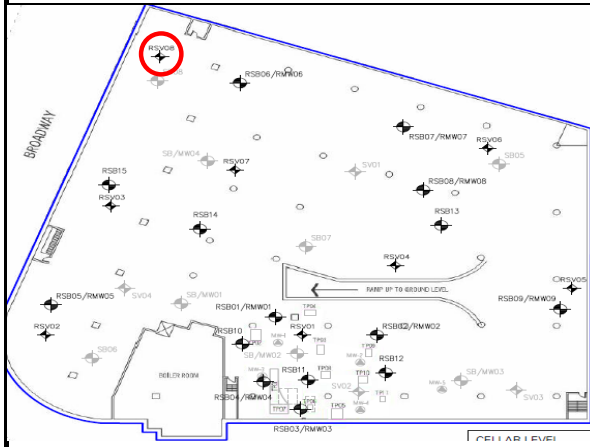
PROJECT: 4650 Broadway	PROJECT NO.: 170505502
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: N/A
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	INSTALLATION DATE STARTED: 4/10/2018
INSTALLATION FOREMAN: Edward Gallo	DATE FINISHED: 4/10/2018
INSTALLATION EQUIPMENT: Geoprobe 6610DT	SAMPLE DATE STARTED: 4/11/2018
	DATE FINISHED: 4/11/2018
INSPECTOR: Kevin Garrett	TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors

METHOD OF INSTALLATION AND PURGING:
Advance a Geoprobe 6610 DT 3 feet below grade surface. Install 2-inch silicone probe, backfill with sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: Silicone 3/16 ID X 3/8 OD	TYPE OF MATERIAL ABOVE SEAL: None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch soil vapor probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 2-inches	FILTER PACK MATERIAL (Sand or Glass Beads): Sand

		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES	
PURGE VOLUME (L): 5.00					
PURGE FLOW RATE (ML/MIN): 0.2			SURFACE		
PID AFTER PURGE (PPM): 0.0			SURFACE		
HELIUM TEST IN BUCKET(%): 17.1			Seal	0	Bentonite Seal
HELIUM TEST IN TUBE (PPM): 0.0			Top of Pack	0.33	
SAMPLE START DATE/TIME: 4/11/2018 7:50					
SAMPLE STOP DATE/TIME: 4/11/2018 9:50					
TOTAL SAMPLE TIME (MIN): 120					
FLOW RATE (L/MIN): 0.018					
VOLUME OF SAMPLE (LITERS): 2.7					
PID AFTER SAMPLE (PPM): 0					
SAMPLE MOISTURE CONTENT: N/A					
CAN SERIAL NUMBER: 502					
REGULATOR SERIAL NUMBER: 422					
CAN START VACUUM PRESS. (" HG): -30.07					
CAN STOP VACUUM PRESS. (" HG): -5.50			3	2-inch silicone probe	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

APPENDIX F
DATA USABILITY SUMMARY REPORTS

2700 Kelly Road, Suite 200 Warrington, PA 18976 T: 215.491.6500 F: 215.491.6501
Mailing Address: P.O. Box 1569 Doylestown, PA 18901

To: Julia Leung, Langan Project Engineer

From: Emily Strake, Langan Senior Project Chemist

Date: September 17, 2018

Re: Data Usability Summary Report
For 4650 Broadway
New York, New York
Groundwater Samples Collected August and September 2018
Langan Project No.: 170505502

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of groundwater samples collected in August and September 2018 by Langan Engineering and Environmental Services (“Langan”) at 4650 Broadway located in New York, New York. The samples were analyzed by Alpha Analytical Laboratories, Inc. located in Westborough, MA (NYSDOH ELAP registration # 11148) for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and total organic carbon (TOC) using the analytical methods specified below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D and 8270D with SIM
- TOC by SW-846 Method 9060A

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

TABLE 1: SAMPLE SUMMARY

SDG	Lab Sample ID	Client Sample ID	Sample Date	Analytical Parameters
L1830626	L1830626-01	RMW18_080718	08/07/2018	VOCs, SVOCs
L1830626	L1830626-02	RMW16_080718	08/07/2018	VOCs, SVOCs, TOC
L1830626	L1830626-03	RMW30_080718	08/07/2018	VOCs, SVOCs
L1830626	L1830626-04	RMW28_080718	08/07/2018	VOCs, SVOCs
L1830626	L1830626-05	RGWDUP02_080718	08/07/2018	VOCs, SVOCs
L1830626	L1830626-06	RGWTB01_080718	08/07/2018	VOCs, SVOCs
L1830626	L1830626-07	RGWFB01_080718	08/07/2018	VOCs, SVOCs, TOC
L1836205	L1836205-01	MW32_091218	09/12/2018	VOCs, SVOCs
L1836205	L1836205-02	MW33_091218	09/12/2018	VOCs, SVOCs
L1836205	L1836205-03	RGWTB03_091218	09/12/2018	VOCs

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VALIDATION OVERVIEW

This data validation was performed in accordance with USEPA Region II Standard Operating Procedure (SOP) #HW-34A, "Trace Volatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-35A, "Semivolatile Data Validation" (September 2016, Revision 1), the USEPA Contract Laboratory Program "National Functional Guidelines for Superfund Organic Methods Data Review" (USEPA-540R-2017-002, January 2017), and the specifics of the methods employed.

Validation includes evaluation of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include holding times, sample preservation, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, system monitoring compounds, internal standard area counts, target compound identification and quantification, chromatograms, trip blanks and overall system performance.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U** – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- NJ** – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items subject to review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

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TABLE 2: VALIDATOR-APPLIED QUALIFICATION

<i>Project Sample ID</i>	<i>Analysis</i>	<i>CAS No.</i>	<i>Analyte</i>	<i>Validator Qualifier</i>
RMW18_080718	SW8260C	67-64-1	ACETONE	J
RMW18_080718	SW8260C	91-20-3	NAPHTHALENE	UJ
RMW16_080718	SW8260C	91-20-3	NAPHTHALENE	J
RMW30_080718	SW8260C	123-91-1	1,4-DIOXANE	UJ
RMW30_080718	SW8270DSIM	91-20-3	NAPHTHALENE	U (0.1)
RMW28_080718	SW8260C	107-06-2	1,2-DICHLOROETHANE	J
RMW28_080718	SW8260C	123-91-1	1,4-DIOXANE	UJ
RGWDUP02_080718	SW8260C	123-91-1	1,4-DIOXANE	UJ
RGWDUP02_080718	SW8260C	67-64-1	ACETONE	J
RGWTB01_080718	SW8260C	123-91-1	1,4-DIOXANE	UJ
RGWFB01_080718	SW8260C	123-91-1	1,4-DIOXANE	UJ
RGWFB01_080718	SW8260C	67-64-1	ACETONE	U (5)
MW32_091218	SW8260C	87-61-6	1,2,3-TRICHLOROBENZENE	UJ
MW33_091218	SW8260C	87-61-6	1,2,3-TRICHLOROBENZENE	UJ
RGWTB03_091218	SW8260C	87-61-6	1,2,3-TRICHLOROBENZENE	UJ

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by USEPA Method 8260C:

LCS/LCSD WG1144319 displayed recoveries less than the lower control limit for naphthalene at 65% and 67%. The associated groundwater sample results are qualified as estimated.

LCS/LCSD WG1144787 displayed recoveries greater than the upper control limit for chloroethane, vinyl acetate, and 1,2,3-trichloropropane. The associated sample results were non-detect; qualification is not necessary. In addition, the LCS recovery for 1,4-dioxane was

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less than the lower control limit at 34% and the LCS/LCSD RPD was greater than the control limit at 69%. The associated 1,4-dioxane sample results are qualified as "UJ".

The field blank and trip blank samples collected on August 7, 2018 exhibited positive detections for acetone at 4.4 ug/L and 1.8 ug/L, respectively. The field blank sample result is qualified as "U" at the reporting limit. The investigative sample results were non-detect.

The continuing calibration analyzed on 08/09/18 at 8:30 exhibited %Ds greater than the control limit with positive biases for chloroethane at 50.4%, vinyl acetate at 58.8%, and 1,2-dichloroethane at 26.1%. The associated positive detections are qualified as "J". In addition, the calibration check displayed a %D greater than the control limit with a negative bias for 1,4-dioxane. The associated sample results were previously qualified; no further action is necessary.

The continuing calibration analyzed on 9/13/18 at 06:48 displayed a %D greater than the control limit with a negative bias for 1,2,3-trichlorobenzene at 30.5%. The LCSD recovery (WG1156522-4) was less than the lower control limit at 64%. The associated sample results are qualified as "UJ".

SVOCs by USEPA Method 8270D and 8270D with SIM:

The field blank sample collected on August 7, 2018 exhibited a positive detection for naphthalene at 0.7 µg/L. The associated positive sample results are qualified as "U" at the reporting limit.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by USEPA Method 8260C:

Sample RGWDUP02_080718 exhibited a surrogate recovery greater than the upper control limit for 1,2-dichloroethane-d4. The remaining three VOC surrogates recovered within control. On the basis of professional judgment, qualification is not necessary.

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Data Usability Summary Report
For 4650 Broadway
New York, New York
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LCS/LCSD WG1156522-3/4 exhibited a RPD greater than the control limit for 1,4-dioxane at 25%. The associated sample results were non-detect; on the basis of professional judgment, qualification is not necessary.

SVOCs by USEPA Method 8270D and 8270D with SIM:

MS/SD sample RMW30_080718 did not recover (i.e., 0%) for 3,3'-dichlorobenzidine. In addition, the MS/SD recoveries for 2-nitroaniline and 4-nitroaniline were less than the lower control limit. The MS/SD RPD for 2,4-dimethylphenol was greater than the control limit. Organic data is not qualified on the basis of MS/SD recoveries or RPDs alone.

Aldol condensates were detected in the TIC scan for method blank sample WG1145610-1. Aldol condensation products are formed from the extraction solvent and do not affect data quality.

COMMENTS:

One field duplicate and parent sample pair (RMW18_080718 and RGWDUP02_080718) was collected and analyzed for VOCs. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than $\pm 1X$ the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 35%. Acetone did not meet the precision criteria.

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All laboratory data packages met ASP Category B requirements and all sample holding times were met.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Emily Strake, CEP
Senior Project Chemist

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To: Julia Leung, Langan Project Engineer

From: Emily Strake, Langan Senior Project Chemist

Date: September 21, 2018

Re: Data Usability Summary Report
For 4650 Broadway
Soil Samples Collected July, August, and September 2018
Langan Project No.: 170505502

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of soil samples collected in July, August, and September 2018 by Langan Engineering and Environmental Services ("Langan") at the 4650 Broadway site located in New York, New York ("the Site"). The samples were analyzed by Alpha Analytical (NYSDOH ELAP registration # 11148) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbon (TPH), total organic carbon (TOC), grain size distribution, and percent solids (%S) by the methods listed below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D and 8270D with SIM
- TPH Gasoline Range (GRO) by SW-846 Method 8015D(M)
- TPH Diesel Range (DRO) by SW-846 Method 8015D(M)
- TOC by SW-846 Method 9060A
- Grain Size Distribution by ASTM Method D6913/D7928
- Percent solids by Method SM 2540G

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

TABLE 1: SAMPLE SUMMARY

<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
L1828986	L1828986-01	RSB07_N1_7-8	07/26/18	SVOCs, %S
L1828986	L1828986-02	RSB07_N2_7-8	07/26/18	SVOCs, %S
L1828986	L1828986-03	RSB07_SW1_7-8	07/26/18	SVOCs, %S
L1828986	L1828986-04	RSB07_SW2_7-8	07/26/18	SVOCs, %S
L1828986	L1828986-05	RSB07_SE1_7-8	07/26/18	SVOCs, %S

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<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
L1828986	L1828986-06	RSB07_SE2_7-8	07/26/18	SVOCs, %S
L1828986	L1828986-07	RSB07_R_3-5	07/26/18	SVOCs, %S
L1828986	L1828986-08	RSB07_R_5-7	07/26/18	SVOCs, %S
L1828986	L1828986-09	RSB07_R_7-8	07/26/18	SVOCs, %S
L1828986	L1828986-10	RSB07_R_10-12	07/26/18	SVOCs, %S
L1828986	L1828986-11	RSB07_R_8-10	07/26/18	SVOCs, %S
L1828986	L1828986-12	RSBFB04_072618	07/26/18	SVOCs
L1828987	L1828987-01	RSB13_R_7-8	07/26/18	SVOCs, %S
L1828987	L1828987-02	RSB13_R_8-10	07/26/18	SVOCs, %S
L1828987	L1828987-03	RSB13_R_10-12	07/26/18	SVOCs, %S
L1828987	L1828987-04	RSB13_NW1_7-8	07/26/18	SVOCs, %S
L1828987	L1828987-05	RSB13_NW2_7-8	07/26/18	SVOCs, %S
L1828987	L1828987-06	RSB13_E2_7-8	07/26/18	SVOCs, %S
L1828987	L1828987-07	RSB13_S1_7-8	07/26/18	SVOCs, %S
L1828987	L1828987-08	RSB13_S2_7-8	07/26/18	SVOCs, %S
L1828987	L1828987-09	RSBDUP04_072618	07/26/18	SVOCs, %S
L1829932	L1829932-01	RSB30_5-6	08/02/18	VOCs, SVOCs, %S
L1829932	L1829932-02	RSBTB09_080218	08/02/18	VOCs
L1829127	L1829127-01	RSB16_13-14	07/27/18	VOCs, SVOCs, %S
L1829127	L1829127-02	RSB17_7-8	07/27/18	VOCs, SVOCs, %S
L1829127	L1829127-03	RSB17_8-9	07/27/18	VOCs, SVOCs, %S
L1829127	L1829127-04	RSB19_7-8	07/27/18	VOCs, SVOCs, %S
L1829127	L1829127-05	RSB19_8-9	07/27/18	VOCs, SVOCs, %S
L1829127	L1829127-06	RSB18_4-6	07/27/18	VOCs, SVOCs, %S
L1829127	L1829127-07	RSB18_8-9	07/27/18	VOCs, SVOCs, %S
L1829127	L1829127-08	RSBDUP03_072718	07/27/18	VOCs, SVOCs, %S
L1829127	L1829127-09	RSB13_E1_7-8	07/27/18	VOCs, %S
L1829127	L1829127-10	RSBTB05_072718	07/27/18	VOCs
L1829127	L1829127-11	RSBFB03_072718	07/27/18	VOCs, SVOCs
L1829793	L1829793-01	RSB31_6-7	08/01/18	VOCs, SVOCs, %S
L1829793	L1829793-02	RSBTB08_080118	08/01/18	VOCs
L1829484	L1829484-01	RSB26_10-11	07/31/18	VOCs, SVOCs, %S
L1829484	L1829484-02	RSB26_7-8	07/31/18	VOCs, SVOCs, %S
L1829484	L1829484-03	RSB25_4-5	07/31/18	VOCs, SVOCs, %S
L1829484	L1829484-04	RSB29_10-11	07/31/18	VOCs, SVOCs, %S
L1829484	L1829484-05	RSB29_8-9	07/31/18	VOCs, SVOCs, %S
L1829484	L1829484-06	RSBTB07_073118	07/31/18	VOCs
L1828984	L1828984-01	RSB16_6-8	07/26/18	VOCs, SVOCs, TPH DRO, TPH GRO, TOC, Grain Size, %S
L1828984	L1828984-02	RSBTB04_072618	07/26/18	VOCs
L1829309	L1829309-01	RSB20_4-6	07/30/18	VOCs, SVOCs, %S
L1829309	L1829309-02	RSB22_8-9	07/30/18	VOCs, SVOCs, %S

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<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
L1829309	L1829309-03	RSB22_10-12	07/30/18	VOCs, SVOCs, %S
L1829309	L1829309-04	RSB20_7-9	07/30/18	Grain size, TPH GRO, TPH DRO, TOC, %S
L1829309	L1829309-05	RSB21_11-12	07/30/18	VOCs, SVOCs, %S
L1829309	L1829309-06	RSB21_8-9	07/30/18	VOCs, SVOCs, %S
L1829309	L1829309-07	RSBTB06_073018	07/30/18	VOCs
L1829309	L1829309-08	RSBFB05_073018	07/30/18	VOCs, SVOCs, %S
L1829309	L1829309-09	RSB27_9-10	07/30/18	VOCs, SVOCs, %S
L1829309	L1829309-10	RSB27_11-12	07/30/18	VOCs, SVOCs, %S
L1829309	L1829309-11	RSB28_6-7	07/30/18	VOCs, SVOCs, %S
L1834771	L1834771-01	RSB33_11-13	09/04/18	VOCs, SVOCs, %S
L1834771	L1834771-02	RSB32_11-13	09/04/18	VOCs, SVOCs, %S
L1834771	L1834771-03	RGWTB02_090418	09/04/18	VOCs

Validation Overview

This data validation was performed in accordance with USEPA Region II Standard Operating Procedure (SOP) #HW-34A, "Trace Volatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-35A, "Semivolatile Data Validation" (September 2016, Revision 1), the USEPA Contract Laboratory Program "National Functional Guidelines for Superfund Organic Methods Data Review" (USEPA-540R-2017-002, January 2017), and the specifics of the methods employed.

Validation includes review of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include holding times, sample preservation, sample extraction, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, system monitoring compounds, internal standard area counts, matrix spike/spike duplicate recoveries, target compound identification and quantification, chromatograms, overall system performance, field duplicate, trip blank and field blank sample results.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

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J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.

U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

TABLE 2: VALIDATOR-APPLIED QUALIFICATION:

<i>Client Sample ID</i>	<i>Analysis</i>	<i>CAS #</i>	<i>Analyte</i>	<i>Validator Qualifier</i>
RSBTB09_080218	SW8260C	67-64-1	ACETONE	J
RSB16_13-14	SW8260C	67-64-1	ACETONE	J
RSB17_7-8	SW8260C	67-64-1	ACETONE	J
RSB17_8-9	SW8260C	67-64-1	ACETONE	J
RSB19_7-8	SW8260C	67-64-1	ACETONE	J
RSB19_8-9	SW8260C	67-64-1	ACETONE	U (12)
RSB18_4-6	SW8260C	67-64-1	ACETONE	J
RSBDUP03_072718	SW8260C	67-64-1	ACETONE	J
RSBTB05_072718	SW8260C	95-63-6	1,2,4-TRIMETHYLBENZENE	UJ
RSBFB03_072718	SW8260C	95-63-6	1,2,4-TRIMETHYLBENZENE	UJ
RSBFB03_072718	SW8260C	67-64-1	ACETONE	U (5)
RSB26_10-11	SW8260C	67-64-1	ACETONE	J
RSB29_10-11	SW8260C	591-78-6	2-HEXANONE	UJ
RSB29_10-11	SW8260C	108-10-1	4-METHYL-2-PENTANONE	UJ
RSB29_10-11	SW8260C	110-57-6	TRANS-1,4-DICHLORO-2-BUTENE	UJ
RSB29_8-9	SW8260C	591-78-6	2-HEXANONE	UJ
RSB29_8-9	SW8260C	108-10-1	4-METHYL-2-PENTANONE	UJ

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<i>Client Sample ID</i>	<i>Analysis</i>	<i>CAS #</i>	<i>Analyte</i>	<i>Validator Qualifier</i>
RSB29_8-9	SW8260C	110-57-6	TRANS-1,4-DICHLORO-2-BUTENE	UJ
RSB16_6-8	M8015D	8006-61-9	GASOLINE RANGE ORGANICS	J
RSB16_6-8	SW9060	TOC	TOTAL ORGANIC CARBON (REP1)	J
RSB16_6-8	SW9060	TOC2	TOTAL ORGANIC CARBON (REP2)	J
RSB16_6-8	D6913/D7928	COARSE SAND AND	COARSE SAND	J
RSB16_6-8	D6913/D7928	GRAVEL FINE	FINE GRAVEL	J
RSB16_6-8	D6913/D7928	GS-FINES	FINES	J
RSBTB04_072618	SW8260C	91-20-3	NAPHTHALENE	UJ
RSB20_4-6	SW8260C	67-64-1	ACETONE	J
RSB22_8-9	SW8260C	67-64-1	ACETONE	J
RSB22_10-12	SW8260C	67-64-1	ACETONE	J
RSB20_7-9	M8015D	8006-61-9	GASOLINE RANGE ORGANICS	U (3000)
RSB20_7-9	SW9060	TOC	TOTAL ORGANIC CARBON (REP1)	J
RSB20_7-9	SW9060	TOC2	TOTAL ORGANIC CARBON (REP2)	J
RSB21_11-12	SW8260C	67-64-1	ACETONE	J
RSBFB05_073018	SW8260C	67-64-1	ACETONE	U (5)
RSB27_9-10	SW8260C	67-64-1	ACETONE	J
RSB27_11-12	SW8260C	78-93-3	2-BUTANONE	J
RSB27_11-12	SW8260C	67-64-1	ACETONE	J
RSB28_6-7	SW8260C	67-64-1	ACETONE	J
RGWTB02_090418	SW8260C	87-61-6	1,2,3-TRICHLOROBENZENE	UJ
RGWTB02_090418	SW8260C	123-91-1	1,4-DIOXANE	UJ
RGWTB02_090418	SW8260C	74-83-9	BROMOMETHANE	U (2.5)

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

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VOCs by SW-846 Method 8260C:

LCS/LCSD WG1143437 displayed recoveries greater than the upper control limit for acetone at 150%, 2-butanone at 150% and 160%, 1,2,3-trichlorobenzene at 160% and 200%, naphthalene at 150% and 170%, and 1,4-dioxane at 190%, and 190%. In addition, the 1,2,3-trichlorobenzene RPD was greater than the control limit at 22%. The associated trip blank sample result for acetone is qualified as "J".

LCS/LCSD WG1140875 displayed recoveries less than the lower control limit for 1,2,4-trimethylbenzene at 62% and 64%. The associated trip blank and field blank sample results are qualified as "UJ". In addition, the recoveries for 2-butanone and chloromethane were greater than the upper control limit; the associated sample results were non-detect; qualification is not necessary.

LCS/LCSD WG1142213 displayed recoveries greater than the upper control limit for chloromethane at 138% and 136%, vinyl chloride at 142% and 140%, and acetone at 143%. The associated positive detections for acetone are qualified as "J".

Trip blank and field blank samples RSBTB05_072718 and RSBFB03_072718 displayed positive detections for acetone at 2.5 ug/L and 1.8 ug/L, respectively. The associated positive sample results are qualified as "U" at the reporting limit.

LCS/LCSD WG1143240 displayed recoveries greater than the upper control limit for bromochloromethane, 1,4-dioxane, trans-1,2-dichloroethene, and bromomethane. The associated sample results were non-detect; qualification is not necessary. In addition, the LCS/LCSD displayed recoveries less than the lower control limit for trans-1,4-dichloro-2-butene at 65%, 4-methyl-2-pentanone at 64%, and 2-hexanone at 67% and 67%. The associated sample results are qualified as "UJ".

LCS/LCSD WG1143324 displayed a recovery greater than the upper control limit for acetone at 141%. The associated positive detection for sample RSB26_10-11 is qualified as "J".

LCS WG1141334 displayed a recovery less than the lower control limit for naphthalene at 66%. The associated trip blank sample result is qualified as "UJ".

LCS/LCSD WG1142580 displayed a recovery greater than the upper control limit for acetone at 146%. The associated positive detections are qualified as "J".

LCS/LCSD WG1142581 displayed a recovery greater than the upper control limit for 2-butanone at 134%. The associated positive detections are qualified as "J".

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Trip blank and field blank samples RSBTB06_073018 and RSBFB05_073018 displayed positive detections for acetone at 4.1 ug/L and 2.8 ug/L, respectively. The associated positive sample results are qualified as "U" at the reporting limit.

LCS/LCSD WG1153838-3/4 exhibited recoveries less than the lower control limit for 1,2,3-trichlorobenzene at 67% and 1,4-dioxane at 36%. In addition, the LCS/LCSD RPD for 1,4-dioxane was greater than the control limit at 76%. The associated sample results are qualified as "UJ".

Trip blank sample RGWTB02_090418 displayed a positive detection for bromomethane at 0.73 ug/L. The associated method blank sample result was 0.84 ug/L. The trip blank is qualified as non-detect at the reporting limit.

TPH GRO by SW-846 Method 8015D(M):

Sample RSB16_6-8 displayed a surrogate recovery greater than the upper control limit for 1,1,1-trifluorotoluene at 229%. The sample result is qualified as "J", for estimated.

Method blank sample WG1142645 displayed a positive detection for TPH GRO at 1,400 ug/kg. The associated positive detection for sample RSB20_7-9 is qualified as "U" at the reporting limit.

TOC by SW-846 Method 9060A:

The laboratory duplicate RPD for total organic carbon (rep2) (39%) and total organic carbon (average) (26%), performed on RSB16_6-8, is outside the acceptance criteria of 25%. The elevated RPD has been attributed to the non-homogeneous nature of the native sample and the result is qualified as "J".

The laboratory duplicate RPD for total organic carbon (rep1) (31%), performed on RSB20_7-9, is outside the acceptance criteria of 25%. The elevated RPD has been attributed to the non-homogeneous nature of the native sample and the result is qualified as "J".

Grain Size by ASTM Method D6913/D7928:

The laboratory duplicate RPDs for % fine gravel (74%), % coarse sand (80%) and fines (29%), performed on RSB16_6-8, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample and the results are qualified as "J".

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OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C:

Trip blank sample RSBTB09_080218 displayed a positive detection for acetone. The associated sample result was non-detect; qualification is not necessary.

The continuing calibration analyzed on 8/6/18 at 09:46 displayed %Ds greater than the control limit with positive biases for 2-butanone, 1,4-dioxane, naphthalene and 1,2,3-trichlorobenzene. The associated sample results were non-detect; qualification is not required.

Hexamethylcyclotrisiloxane was detected in the TIC scan for method blank sample WG1142213. Data is not qualified on this basis.

The continuing calibration analyzed on 7/30/18 at 07:30 displayed %Ds greater than the control limit with positive biases for chloromethane and 2-butanone. The associated sample results were non-detect; qualification is not necessary.

The continuing calibration analyzed on 8/2/18 at 07:23 displayed %Ds greater than the control limit with positive biases for chloromethane, vinyl chloride, chloroethane, and acetone. The associated sample results were non-detect; qualification is not necessary.

LCS/LCSD WG1142818 displayed recoveries greater than the upper control limit for naphthalene, 1,2,3-trichlorobenzene, and 1,4-dioxane. The associated trip blank sample results were non-detect; qualification is not necessary.

LCS/LCSD WG1144150 displayed recoveries greater than the upper control limit for trans-1,4-dichloro-2-butene, vinyl chloride and chloroethane. In addition, the LCS/LCSD RPD for 2-butanone was greater than the upper control limit. The associated sample results were non-detect; qualification is not required.

Trip blank sample RSBTB08_080118 displayed a positive detection for acetone at 4.4 ug/L. The associated sample results were greater than the reporting limit; on the basis of professional judgment, qualification is not necessary.

The continuing calibration analyzed on 8/3/18 at 07:11 displayed %Ds greater than the control limit with positive biases for 1,4-dioxane, naphthalene, and 1,2,3-trichlorobenzene. The associated trip blank sample results were non-detect; qualification is not necessary.

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The continuing calibration analyzed on 8/7/18 at 18:55 displayed %Ds greater than the control limit with positive biases for vinyl chloride, chloroethane, and 1,2-dichloroethane. The associated sample results were non-detect; qualification is not necessary.

Sample RSB26_7-8 displayed a surrogate recovery of Dibromofluoromethane less than the lower control limit at 42%. The remaining three surrogate compounds recovered within control. On the basis of professional judgment, qualification is not required.

LCS/LCSD WG1143528 displayed recoveries greater than the upper control limit for acetone at 149%, 2-butanone at 134%, and chloromethane at 133%. The associated sample results were non-detect; qualification is not necessary.

Sample RSB26_7-8 displayed an internal standard area count for fluorobenzene greater than the upper control limit at 257%. Validation protocol requires qualifying positive detections for low bias; however, none of the analytes quantitated by fluorobenzene exhibited detections; qualification is not necessary.

Method blank sample WG1143240 displayed positive detection for styrene at 0.35 ug/kg. The associated sample results were either non-detect or orders of magnitude greater than the blank amount; qualification is not necessary.

Trip blank sample RSBTB07_07318 displayed a positive detection for acetone at 2.0 ug/L. The associated sample results were greater than the reporting limit; on the basis of professional judgment, qualification is not necessary.

Sample RSB16_6-8 displayed a surrogate recovery of 1,2-dichloroethane-d4 greater than the upper control limit at 131%. The remaining three surrogate compounds recovered within control. On the basis of professional judgment, qualification is not required.

Trip blank sample RSBTB04_072618 displayed a positive detection for acetone at 2.4 ug/L. The associated sample results were non-detect; qualification is not required.

Method blank sample WG1142278 displayed positive detections for methylene chloride and bromomethane at 110 ug/kg and 32 ug/kg, respectively. The associated sample results were either non-detect or more than an order of magnitude greater than the blank amount; qualification is not necessary.

LCS/LCSD WG1142581 displayed a recovery greater than the upper control limit for acetone at 146%. The associated sample result was non-detect; qualification is not necessary.

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MS sample RSB20_4-6 displayed recoveries outside of control limits for PCE, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, m,p-xylenes, acetone, Bromobenzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, o-chlorotoluene, p-chlorotoluene, hexachlorobutadiene, isopropylbenzene, p-isopropyltoluene, n-propylbenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, p-diethylbenzene, p-ethyltoluene, and 1,2,4,5-tetramethylbenzene. Data is not qualified on the basis of MS/SD recoveries alone.

Method blank sample WG1142580 displayed positive detection for bromomethane at 0.71 ug/kg. The associated sample results were non-detect; qualification is not necessary.

Method blank sample WG1153838-5 displayed positive detections for TICs in the volatile scan. Data is not qualified on this basis.

Method blank sample WG1154859-5 displayed positive detections for bromomethane at 0.63 ug/kg and MTBE at 0.20 ug/kg. The associated sample results were non-detect; qualification is not necessary.

SVOCs by SW-846 Method 8270D:

Aldol condensates were detected in the TIC scan for method blank sample WG1140608-1. Aldol condensation products are formed from the extraction solvent and do not affect data quality.

An unknown analyte was detected in the TIC scan for method blank sample WG1143573. Data is not qualified on this basis.

Benzoic acid did not recover (i.e., 0%) in matrix spike sample WSB20_4-6. Organic data is not qualified on the basis of MS/SD recoveries alone.

Aldol condensates were detected in the TIC scan for method blank sample WG1142471-1. Aldol condensation products are formed from the extraction solvent and do not affect data quality. Two unknown analytes were also detected in the TIC scan. Data is not qualified on this basis.

LCS/LCSD WG1153556-2/3 exhibited recoveries greater than the upper control limit for phenol. The associated sample results were non-detect; qualification is not necessary.

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TPH GRO by SW-846 Method 8015D(M):

Method blank sample WG1142170 displayed a positive detection at 1,400 ug/kg. The associated sample result was orders of magnitude greater than the blank amount; qualification is not necessary.

The continuing calibration analyzed on 8/2/18 at 21:11 displayed %Ds greater than the control limit with a negative bias for GRO. The associated sample result was previously qualified; no further action is necessary.

TPH DRO by SW-846 Method 8015D(M):

Method blank sample WG1141258 displayed a positive detection at 3,870 ug/kg. The associated sample result was orders of magnitude greater than the blank amount; qualification is not necessary.

TOC by SW-846 Method 9060A:

Continuing calibration blank R1097455 displayed a positive detection at 0.037 mg/kg. The associated sample result was orders of magnitude greater than the blank amount; qualification is not necessary.

The laboratory duplicate RPD for total organic carbon (rep2) (39%) and total organic carbon (average) (26%), performed on RSB16_6-8, is outside the acceptance criteria of 25%. The elevated RPD has been attributed to the non-homogeneous nature of the native sample and the result is qualified as "J".

COMMENTS:

Two field duplicate and parent sample pairs (RSB13_S1_7-8 and RSB13_S1_7-8, and RSB16_13-14 and RSB16_13-14) were collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than $\pm 2X$ the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 50%. All analytes met the precision criteria.

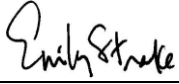
On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

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Signed:



Emily Strake, CEP
Senior Project Chemist

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Mailing Address: P.O. Box 1569 Doylestown, PA 18901

To: Andrea Scher, Langan Senior Staff Scientist

From: Emily Strake, Langan Senior Project Chemist/Risk Assessor

Date: May 18, 2018

Re: Data Usability Summary Report
For 4650 Broadway
Manhattan, New York
Groundwater Samples Collected April 2018
Langan Project No.: 170505501

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of groundwater samples collected on April 18 and 19, 2018 by Langan Engineering and Environmental Services ("Langan") at 4650 Broadway located in Manhattan, New York. The samples were analyzed by Alpha Analytical located in Mansfield, MA and Westborough, MA (NYSDOH ELAP registrations #11627 and #11148) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, total and dissolved metals, total and dissolved mercury (Hg), hexavalent chromium (CrVI) and perfluorinated alkylated compounds (PFCs) using the analytical method specified below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D and 8270D with selective ion monitoring (SIM)
- PCBs by SW-846 8082A
- Pesticides by SW-848 8081B
- Herbicides by SW-846 8151A
- PFCs by USEPA Method 537(M)
- Metals by SW-846 6020A
- Mercury by SW-846 7470A
- CN by USEPA Methods 9010C
- CrVI by SW-846 7196A

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

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TABLE 1: SAMPLE SUMMARY

<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
L1813566	L1813566-01	RMW02_041818	4/18/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813566	L1813566-02	RMW03_041818	4/18/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813566	L1813566-03	RMW04_041818	4/18/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813566	L1813566-04	RGWDUP01_041818	4/18/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813566	L1813566-05	RGWFB01_041818	4/18/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813566	L1813566-06	RGWTB01_041818	4/18/2018	VOCs
L1813566	L1813566-07	RMW03_041818	4/19/2018	PFCs
L1813851	L1813851-01	RMW01_041918	4/19/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813851	L1813851-02	RMW05_041918	4/19/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813851	L1813851-03	RMW06_041918	4/19/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813851	L1813851-04	RMW07_041918	4/19/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813851	L1813851-05	RMW08_041918	4/19/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813851	L1813851-06	RMW09_041918	4/19/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs
L1813851	L1813851-07	RGWTB01_041918	4/19/2018	VOCs
L1813851	L1813851-08	FIELD BLANK	4/19/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CrVI, CN and PFCs

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VALIDATION OVERVIEW

This data validation was performed in accordance with USEPA Region II SOP #HW-34, "Trace Volatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-33A, "Low/Medium Volatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-35A, "Semivolatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-37A, "PCB Aroclor Data Validation" (June 2015, Revision 0), USEPA Region II SOP #HW-36A, "Pesticide Data Validation" (October 2016, Revision 1), USEPA Region II SOP #HW-17, "Validating Chlorinated Herbicides" (December 2010, Revision 3.1), USEPA Region II SOP #HW-3b, "ICP-MS Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-3c, "Mercury and Cyanide Data Validation" (September 2016, Revision 1), "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA-540-R-2017-002, January 2017), the USEPA Contract Laboratory Program, "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA-540-R-2017-001, January 2017) and the specifics of the methods employed.

Validation includes evaluation of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include sample preservation, holding times, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, matrix spike/matrix spike duplicates, laboratory duplicates, extraction/digestion logs, serial dilutions, interference checks, post-spike samples, initial and continuing calibration blanks, system monitoring compounds, internal standard area counts, field duplicates, trip blanks, field blanks, target compound identification and quantification, chromatograms, and overall system performance.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.

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U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items subject to review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

TABLE 2: VALIDATOR-APPLIED QUALIFICATION

<i>Project Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS No.</i>	<i>Validator Qualifier</i>
L1813566				
RMW02_041818	6020A	Total Antimony	7440-36-0	U (0.00400)
RMW02_041818	6020A	Dissolved Antimony	7440-36-0	U (0.00400)
RMW02_041818	6020A	Chromium, Total	7440-47-3	U (0.00100)
RMW02_041818	6020A	Dissolved Copper	7440-50-8	U (0.00100)
RMW02_041818	6020A	Total Copper	7440-50-8	J
RMW02_041818	6020A	Dissolved Manganese	7439-96-5	J
RMW02_041818	6020A	Total Selenium	7782-49-2	J
RMW02_041818	6020A	Dissolved Sodium	7440-23-5	J
RMW02_041818	6020A	Total Zinc	7440-66-6	J
RMW02_041818	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RMW02_041818	SW8260C	Acetone	67-64-1	U (15)
RMW02_041818	SW8260C	Bromomethane	74-83-9	UJ
RMW02_041818	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (3.0)
RMW02_041818	SW8270DSIM	Hexachlorobutadiene	87-68-3	UJ
RMW02_041818	SW8270DSIM	Hexachloroethane	67-72-1	UJ
RMW02_041818	537(M)	Perfluorotetradecanoic acid (PFTA)	376-06-7	U (2.08)
RMW03_041818	6020A	Dissolved Antimony	7440-36-0	U (0.00400)
RMW03_041818	6020A	Total Antimony	7440-36-0	UJ
RMW03_041818	6020A	Total Copper	7440-50-8	J

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
RMW03_041818	6020A	Dissolved Manganese	7439-96-5	J
RMW03_041818	6020A	Total Selenium	7782-49-2	UJ
RMW03_041818	6020A	Dissolved Sodium	7440-23-5	J
RMW03_041818	6020A	Total Zinc	7440-66-6	J
RMW03_041818	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RMW03_041818	SW8260C	Acetone	67-64-1	J
RMW03_041818	SW8260C	Bromomethane	74-83-9	UJ
RMW03_041818	SW8270D	Benzoic Acid	65-85-0	UJ
RMW03_041818	SW8270DSIM	1,4-Dioxane (P-Dioxane)	123-91-1	J
RMW03_041818	SW8270DSIM	Pentachlorophenol	87-86-5	R
RMW03_041818	SW8270DSIM	Pentachlorophenol	87-86-5	R
RMW04_041818	6020A	Dissolved Antimony	7440-36-0	U (0.00400)
RMW04_041818	6020A	Total Antimony	7440-36-0	J
RMW04_041818	6020A	Chromium, Total	7440-47-3	U (0.00100)
RMW04_041818	6020A	Total Copper	7440-50-8	J
RMW04_041818	6020A	Dissolved Manganese	7439-96-5	J
RMW04_041818	6020A	Total Selenium	7782-49-2	UJ
RMW04_041818	6020A	Dissolved Sodium	7440-23-5	J
RMW04_041818	6020A	Total Zinc	7440-66-6	J
RMW04_041818	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RMW04_041818	SW8260C	Bromomethane	74-83-9	UJ
RMW04_041818	SW8260C	Chloroethane	75-00-3	UJ
RMW04_041818	SW8260C	Chloromethane	74-87-3	UJ
RMW04_041818	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RMW04_041818	SW8260C	Hexachlorobutadiene	87-68-3	UJ
RMW04_041818	SW8260C	Vinyl Chloride	75-01-4	UJ
RMW04_041818	SW8270D	Benzoic Acid	65-85-0	R
RMW04_041818	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (4.8)
RMW04_041818	SW8270DSIM	Hexachlorobutadiene	87-68-3	UJ
RMW04_041818	SW8270DSIM	Hexachloroethane	67-72-1	UJ
RMW04_041818	537(M)	1H,1H,2H,2H- PERFLUOROOCCTANESULFONIC ACID (6:2FTS)	27619-97-2	U (2.50)

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<i>Project Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS No.</i>	<i>Validator Qualifier</i>
RMW04_041818	537(M)	N-ETHYL PERFLUOROOCTANESULFONAMIDO ACETIC ACID (NETFOSAA)	2991-50-6	J
RMW04_041818	537(M)	Perfluorotetradecanoic acid (PFTA)	376-06-7	U (2.50)
RMW04_041818	537(M)	Perfluorotridecanoic Acid (PFTriA)	72629-94-8	U (2.50)
RGWDUP01_041818	6020A	Total Antimony	7440-36-0	J
RGWDUP01_041818	6020A	Chromium, Total	7440-47-3	U (0.00100)
RGWDUP01_041818	6020A	Dissolved Copper	7440-50-8	U (0.00100)
RGWDUP01_041818	6020A	Total Copper	7440-50-8	J
RGWDUP01_041818	6020A	Total Manganese	7439-96-5	J
RGWDUP01_041818	6020A	Total Selenium	7782-49-2	J
RGWDUP01_041818	6020A	Dissolved Sodium	7440-23-5	J
RGWDUP01_041818	6020A	Total Zinc	7440-66-6	J
RGWDUP01_041818	SW8081B	Endosulfan Sulfate	1031-07-8	UJ
RGWDUP01_041818	SW8081B	Endrin Ketone	53494-70-5	UJ
RGWDUP01_041818	SW8081B	Heptachlor Epoxide	1024-57-3	UJ
RGWDUP01_041818	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RGWDUP01_041818	SW8260C	Acetone	67-64-1	U (17)
RGWDUP01_041818	SW8260C	Bromomethane	74-83-9	UJ
RGWDUP01_041818	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RGWDUP01_041818	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (2.9)
RGWDUP01_041818	SW8270DSIM	Hexachlorobutadiene	87-68-3	UJ
RGWDUP01_041818	SW8270DSIM	Hexachloroethane	67-72-1	UJ
RGWDUP01_041818	537(M)	Perfluorotetradecanoic acid (PFTA)	376-06-7	U (1.72)
RGWFB01_041818	6020A	Dissolved Antimony	7440-36-0	U (0.00400)
RGWFB01_041818	6020A	Total Antimony	7440-36-0	UJ
RGWFB01_041818	6020A	Dissolved Manganese	7439-96-5	UJ
RGWFB01_041818	6020A	Total Selenium	7782-49-2	UJ
RGWFB01_041818	6020A	Dissolved Sodium	7440-23-5	U (0.120)
RGWFB01_041818	6020A	Total Sodium	7440-23-5	U (0.100)
RGWFB01_041818	SW8081B	Endosulfan Sulfate	1031-07-8	UJ
RGWFB01_041818	SW8081B	Endrin Ketone	53494-70-5	UJ
RGWFB01_041818	SW8081B	Heptachlor Epoxide	1024-57-3	UJ

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
RGWFB01_041818	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RGWFB01_041818	SW8260C	Bromomethane	74-83-9	UJ
RGWFB01_041818	SW8260C	Chloroethane	75-00-3	UJ
RGWFB01_041818	SW8260C	Chloromethane	74-87-3	UJ
RGWFB01_041818	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RGWFB01_041818	SW8260C	Hexachlorobutadiene	87-68-3	UJ
RGWFB01_041818	SW8260C	Vinyl Chloride	75-01-4	UJ
RGWFB01_041818	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RGWFB01_041818	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (2.9)
RGWFB01_041818	SW8270DSIM	Hexachlorobutadiene	87-68-3	UJ
RGWFB01_041818	SW8270DSIM	Hexachloroethane	67-72-1	UJ
RGWFB01_041818	537(M)	Perfluorododecanoic acid (PFDoA)	307-55-1	U (1.78)
RGWFB01_041818	537(M)	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	U (1.78)
RGWFB01_041818	537(M)	Perfluorooctanoic acid (PFOA)	335-67-1	U (1.78)
RGWFB01_041818	537(M)	Perfluorotetradecanoic acid (PFTA)	376-06-7	U (1.78)
RGWFB01_041818	537(M)	Perfluorotridecanoic Acid (PFTriA)	72629-94-8	U (1.78)
RGWFB01_041818	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RGWFB01_041818	SW8260C	Acetone	67-64-1	UJ
RGWFB01_041818	SW8260C	Bromomethane	74-83-9	UJ
RMW03_041818	537(M)	1H,1H,2H,2H- PERFLUOROOCTANESULFONIC ACID (6:2FTS)	27619-97-2	J
RMW02_041818	SW8260C	1,2,4-Trimethylbenzene	95-63-6	J
RGWDUP01_041818	SW8260C	1,2,4-Trimethylbenzene	95-63-6	J
RMW02_041818	SW8260C	1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	J
RGWDUP01_041818	SW8260C	1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	J
RMW02_041818	SW8260C	Acrylonitrile	107-13-1	J
RGWDUP01_041818	SW8260C	Acrylonitrile	107-13-1	J
RMW02_041818	SW8260C	Ethylbenzene	100-41-4	J
RGWDUP01_041818	SW8260C	Ethylbenzene	100-41-4	J
RMW02_041818	SW8260C	N-Propylbenzene	103-65-1	J
RGWDUP01_041818	SW8260C	N-Propylbenzene	103-65-1	J
RMW02_041818	SW8260C	Naphthalene	91-20-3	J

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
RGWDUP01_041818	SW8260C	Naphthalene	91-20-3	J
RMW02_041818	SW8260C	4-Ethyltoluene	622-96-8	J
RGWDUP01_041818	SW8260C	4-Ethyltoluene	622-96-8	J
RMW02_041818	SW8260C	m,p-Xylene	179601-23-1	J
RGWDUP01_041818	SW8260C	m,p-Xylene	179601-23-1	J
RMW02_041818	SW8260C	Xylenes	1330-20-7	J
RGWDUP01_041818	SW8260C	Xylenes	1330-20-7	J
RMW02_041818	SW8260C	2-Methylnaphthalene (SIM)	91-57-6	J
RGWDUP01_041818	SW8260C	2-Methylnaphthalene (SIM)	91-57-6	J
RMW02_041818	6020A	Total Aluminum	7429-90-5	J
RMW02_041818	6020A	Total Barium	7440-39-3	J
RMW02_041818	6020A	Total Beryllium	7440-41-7	J
RMW02_041818	6020A	Total Cadmium	7440-43-9	J
RMW02_041818	6020A	Chromium, Total	7440-47-3	J
RMW02_041818	6020A	Total Cobalt	7440-48-4	J
RMW02_041818	6020A	Total Iron	7439-89-6	J
RMW02_041818	6020A	Total Lead	7439-92-1	J
RMW02_041818	6020A	Total Magnesium	7439-95-4	J
RMW02_041818	6020A	Dissolved Manganese	7439-96-5	J
RMW02_041818	6020A	Total Nickel	7440-02-0	J
RMW02_041818	6020A	Total Vanadium	7440-62-2	J
RGWDUP01_041818	6020A	Total Aluminum	7429-90-5	J
RGWDUP01_041818	6020A	Total Barium	7440-39-3	J
RGWDUP01_041818	6020A	Total Beryllium	7440-41-7	J
RGWDUP01_041818	6020A	Total Cadmium	7440-43-9	J
RGWDUP01_041818	6020A	Chromium, Total	7440-47-3	J
RGWDUP01_041818	6020A	Total Cobalt	7440-48-4	J
RGWDUP01_041818	6020A	Total Iron	7439-89-6	J
RGWDUP01_041818	6020A	Total Lead	7439-92-1	J
RGWDUP01_041818	6020A	Dissolved Magnesium	7439-95-4	J
RGWDUP01_041818	6020A	Total Manganese	7439-96-5	J
RGWDUP01_041818	6020A	Total Nickel	7440-02-0	J

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
RGWDUP01_041818	6020A	Total Vanadium	7440-62-2	J
L1813851				
RMW01_041918	6020A	Dissolved Aluminum	7429-90-5	U (0.0177)
RMW01_041918	6020A	Total Aluminum	7429-90-5	J
RMW01_041918	6020A	Total Antimony	7440-36-0	U (0.00400)
RMW01_041918	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RMW01_041918	SW8260C	Chloromethane	74-87-3	UJ
RMW01_041918	SW8260C	Tetrachloroethylene (PCE)	127-18-4	UJ
RMW01_041918	SW8260C	Vinyl Chloride	75-01-4	UJ
RMW01_041918	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RMW01_041918	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RMW01_041918	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (4.4)
RMW01_041918	SW9012B	Cyanide	57-12-5	UJ
RMW01_041918	537(M)	1H,1H,2H,2H- PERFLUOROOCETANESULFONIC ACID (6:2F7S)	27619-97-2	J
RMW01_041918	537(M)	PERFLUOROOCETANESULFONAMIDE (FOSA)	754-91-6	J
RMW05_041918	6020A	Total Aluminum	7429-90-5	J
RMW05_041918	6020A	Total Antimony	7440-36-0	U (0.00400)
RMW05_041918	6020A	Dissolved Cadmium	7440-43-9	U (0.000200)
RMW05_041918	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RMW05_041918	SW8260C	Hexachlorobutadiene	87-68-3	UJ
RMW05_041918	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RMW05_041918	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RMW05_041918	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (3.9)
RMW05_041918	SW9012B	Cyanide	57-12-5	UJ
RMW05_041918	537(M)	PERFLUOROOCETANESULFONAMIDE (FOSA)	754-91-6	UJ
RMW05_041918	537(M)	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	U (1.92)
RMW06_041918	6020A	Total Aluminum	7429-90-5	J
RMW06_041918	6020A	Total Antimony	7440-36-0	U (0.00400)
RMW06_041918	6020A	Dissolved Cadmium	7440-43-9	U (0.00020)
RMW06_041918	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
RMW06_041918	SW8260C	Hexachlorobutadiene	87-68-3	UJ
RMW06_041918	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RMW06_041918	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RMW06_041918	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (4.1)
RMW06_041918	SW9012B	Cyanide	57-12-5	J
RMW06_041918	537(M)	PERFLUOROOCTANESULFONAMIDE (FOSA)	754-91-6	UJ
RMW07_041918	6020A	Dissolved Aluminum	7429-90-5	U (0.0148)
RMW07_041918	6020A	Total Aluminum	7429-90-5	J
RMW07_041918	6020A	Total Antimony	7440-36-0	U (0.00400)
RMW07_041918	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RMW07_041918	SW8260C	Hexachlorobutadiene	87-68-3	UJ
RMW07_041918	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RMW07_041918	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RMW07_041918	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (4.2)
RMW07_041918	SW9012B	Cyanide	57-12-5	J
RMW07_041918	537(M)	1H,1H,2H,2H- PERFLUOROOCTANESULFONIC ACID (6:2FTS)	27619-97-2	J
RMW07_041918	537(M)	PERFLUOROOCTANESULFONAMIDE (FOSA)	754-91-6	UJ
RMW08_041918	6020A	Dissolved Aluminum	7429-90-5	U (0.0100)
RMW08_041918	6020A	Total Aluminum	7429-90-5	J
RMW08_041918	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RMW08_041918	SW8260C	Hexachlorobutadiene	87-68-3	UJ
RMW08_041918	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RMW08_041918	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RMW08_041918	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (4.3)
RMW08_041918	SW9012B	Cyanide	57-12-5	UJ
RMW08_041918	537(M)	1H,1H,2H,2H- PERFLUOROOCTANESULFONIC ACID (6:2FTS)	27619-97-2	J
RMW08_041918	537(M)	Perfluorobutanoic Acid	375-22-4	J
RMW09_041918	6020A	Dissolved Aluminum	7429-90-5	U (0.0194)
RMW09_041918	6020A	Total Aluminum	7429-90-5	J

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
RMW09_041918	6020A	Total Antimony	7440-36-0	U (0.00400)
RMW09_041918	6020A	Dissolved Iron	7439-89-6	U (0.0500)
RMW09_041918	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RMW09_041918	SW8260C	Hexachlorobutadiene	87-68-3	UJ
RMW09_041918	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RMW09_041918	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RMW09_041918	SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	U (4.1)
RMW09_041918	SW9012B	Cyanide	57-12-5	UJ
RMW09_041918	537(M)	PERFLUOROOCTANESULFONAMIDE (FOSA)	754-91-6	UJ
RGWTB01_041918	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RGWTB01_041918	SW8260C	Hexachlorobutadiene	87-68-3	UJ

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. The major deficiencies are identified below.

SVOCs by USEPA Method 8270D:

L1813566:

The surrogates 2-fluorophenol (0%), phenol-d6 (0%) and 2,4,6-tribromophenol (0%) exhibited percent recoveries below the lower control limit for sample RMW03_041818. The non-detect SIM results for compounds associated with these surrogates are qualified as "R" based on potential low bias. The re-extraction exhibited percent recoveries below the lower control limit for 2-fluorophenol (14%) and phenol-d6 (9%). The associated non-detect SIM results for acid extractable compounds are qualified as "R" based on potential low bias.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The minor deficiencies are identified below.

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VOCs by USEPA Method 8260C:

L1813566:

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) for batch WG1108800 exhibited a relative percent difference (RPD) greater than the control limit (i.e. 20%) for acetone (30%). The associated results in samples RMW03_041818 and RGWTB01_041818 are qualified as "J" or "UJ" based on potential indeterminate bias.

The field blank collected on 4/18/208 displayed a positive detection for acetone at a concentration of 7.7 µg/L. The associated positive detections in samples RMW02_041818 and RGWDUP01_041818 are qualified as "U" based on potential high bias.

The initial calibration (ICAL) analyzed for instrument VOA101 exhibited a low average response factor (RF) for 1,4-dioxane (0.001). The associated results in samples RMW04_041818 and RGWFB01_041818 are qualified as "UJ" based on potential indeterminate bias.

The ICAL analyzed for instrument JACK exhibited a low average RF for 1,4-dioxane (0.002). The associated results in samples RMW02_041818, RMW03_041818, RGWDUP01_041818 and RGWTB01_041818 are qualified as "UJ" based on potential indeterminate bias.

The initial calibration verification (ICV) analyzed on 3/16/2018 at 1:14 a.m. exhibited percent differences (%Ds) greater than the control limit for dichlorodifluoromethane (69.2%), chloromethane (49.3%), vinyl chloride (44.9%), bromomethane (39.8%), chloroethane (31.3%) and 1,4-dioxane (22.7%). The associated results in samples RMW04_041818 and RGWFB01_041818 are qualified as "UJ" based on potential indeterminate bias.

The ICV analyzed on 4/18/2018 at 1:25 p.m. exhibited a %D greater than the control limit for 1,4-dioxane (25.7%). The associated results in samples RMW02_041818, RMW03_041818, RGWDUP01_041818 and RGWTB01_041818 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/20/2018 at 7:17 exhibited a %D greater than the control limit for bromomethane (-31.6%). The associated results in samples RMW02_041818, RMW03_041818, RGWDUP01_041818 and RGWTB01_041818 are qualified as "UJ" based on potential indeterminate bias.

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The CCV analyzed on 4/22/2018 at 7:49 exhibited %Ds greater than the control limit for 1,4-dioxane (28.8%) and hexachlorobutadiene (20.4%). The associated results in sample RMW04_041818 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/23/2018 at 19:03 exhibited %Ds greater than the control limit for 1,4-dioxane (48.5%) and hexachlorobutadiene (23.8%). The associated results in sample RGWFB01_041818 are qualified as "UJ" based on potential indeterminate bias.

The field duplicate RGWDUP01_041818 and parent sample RMW02_041818 exhibited RPDs greater than the control limit for 1,2,4-trimethylbenzene (97.7%), 1,3,5-trimethylbenzene (148%), acrylonitrile (76.9%), ethylbenzene (108%), n-propylbenzene (96.6%), naphthalene (94.2%), p-ethyltoluene (92.1%), m,p-xylene (66.7%) and total xylenes (65.3%). The results in the parent and duplicate samples are qualified as "J" based on potential indeterminate bias.

L1813851:

The LCS/LCSD for batch WG1109704 exhibited an RPD greater than the upper control limit for 1,4-dioxane (59%). The associated results in samples RMW05_041918, RMW06_041918, RMW07_041918, RMW08_041918, RMW09_041918 and RGWTB01_041918 are qualified as "UJ" based on potential indeterminate bias.

The ICALs analyzed for instruments VOA105 and GONZO exhibited low average RFs for 1,4-dioxane (0.001 and 0.001, respectively). The associated results in samples RMW01_041918, RMW05_041918, RMW06_041918, RMW07_041918, RMW08_041918, RMW09_041918 and RGWTB01_041918 are qualified as "UJ" based on potential indeterminate bias.

The ICV analyzed on 4/5/2018 at 12:46 a.m. exhibited %Ds greater than the control limit for chloromethane (39.9%) and vinyl chloride (32.0%). The associated results in sample RMW01_041918 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/24/2018 at 17:00 exhibited %Ds greater than the control limit for 1,4-dioxane (-40.6%) and hexachlorobutadiene (-20.6%). The associated results in samples RMW05_041918, RMW06_041918, RMW07_041918, RMW08_041918, RMW09_041918 and RGWTB01_041918 are qualified as "UJ" based on potential indeterminate bias.

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The CCV analyzed on 4/25/2018 at 8:21 exhibited a %D greater than the control limit for tetrachloroethene (-20.9%). The associated result in sample RMW01_041918 is qualified as "UJ" based on potential indeterminate bias.

SVOCs by USEPA Method 8270D:

L1813566:

The LCS/LCSD for batch WG1109274 exhibited an RPD greater than the control limit for benzoic acid (38%). The associated result in sample RMW03_041818 is qualified as "UJ" based on potential indeterminate bias.

The method blank for batch WG1108667 displayed a positive detection for bis(2-ethylhexyl)phthalate (1.6 µg/L). The associated positive detections in samples RMW02_041818, RMW04_041818, RGWDUP01_041818 and RGWFB01_041818 are qualified as "U" based on potential high bias.

The CCV analyzed on 4/23/2018 at 9:28 exhibited a %D greater than the control limit for bis(2-chloroisopropyl)ether (-28.8%). The associated results in samples RGWDUP01_041818 and RGWFB01_041818 are qualified as "UJ" based on potential indeterminate bias.

The surrogates 2-fluorophenol (0%), phenol-d6 (0%) and 2,4,6-tribromophenol (0%) exhibited percent recoveries below the lower control limit for sample RMW03_041818. The positive detection for compounds associated with these surrogates are qualified as "J" based on potential low bias. The re-extraction exhibited percent recoveries below the lower control limit for 2-fluorophenol (14%) and phenol-d6 (9%). The associated positive SIM results for acid extractable compounds are qualified as "J" based on potential low bias.

The LCSD for batch WG1108126 exhibited a percent recovery below the lower control limit for hexachlorobutadiene (38%). The associated SIM results in samples RMW02_041818, RMW04_041818, RGWDUP01_041818 and RGWFB01_041818 are qualified as "UJ" based on potential low bias.

The LCS/LCSD for batch WG1108126 exhibited percent recoveries below the lower control limit for hexachloroethane (39%/34%). The associated SIM results in samples RMW02_041818, RMW04_041818, RGWDUP01_041818 and RGWFB01_041818 are qualified as "UJ" based on potential low bias.

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The field duplicate RGWDUP01_041818 and parent sample RMW02_041818 exhibited a relative percent difference (RPD) greater than the upper control limit (i.e. 30%) for 2-methylnaphthalene (SIM) (44.4%). The results in the parent and duplicate samples are qualified as "J" based on potential indeterminate bias.

The LCS/LCSD for batch WG108667 exhibited percent recoveries below the lower control limit for benzoic acid (6%/7%). The associated results in samples RMW02_041818, RMW04_041818, RGWDUP01_041818 and RGWFB01_041818 are qualified as "UJ" based on potential indeterminate bias.

L1813851:

The method blank for batch WG1108705 displayed a positive detection for bis(2-ethylhexyl)phthalate at a concentration of 2.0 µg/L. The associated positive detections in samples RMW01_041918, RMW05_041918, RMW06_041918, RMW07_041918, RMW08_041918 and RMW09_041918 are qualified as "U" based on potential high bias.

The CCV analyzed on 4/23/2018 at 23:23 exhibited %Ds greater than the control limit for bis(2-chloroisopropyl)ether (-21.4%) and 4,6-dinitro-2-methylphenol (25.5%). The associated results in samples RMW01_041918, RMW05_041918, RMW06_041918, RMW07_041918, RMW08_041918 and RMW09_041918 are qualified as "UJ" based on potential indeterminate bias.

Pesticides by USEPA Method 8081A:

L1813566:

The CCV analyzed on 4/21/2018 at 10:00 exhibited %Ds greater than the control limit for heptachlor epoxide (20.3%), endosulfan sulfate (21.4%) and endrin ketone (24.8%). The associated results in samples RGWDUP01_041818 and RGWFB01_041818 are qualified as "UJ" based on potential indeterminate bias.

PFCs by USEPA Method 537(M):

L1813566:

The surrogate M2-6:2FTS exhibited percent recoveries greater than the upper control limit (i.e. 150%) in samples RMW4_041818 (183%) and RMW03_041818 (263%). The associated positive detections are qualified as "J" based on potential high bias.

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The surrogate D5-NETFOSAA exhibited a percent recovery greater than the upper control limit for RMW04_041818 (203%). The associated positive detection IS qualified as "J" based on potential high bias.

The field blank collected on 4/18/2018 displayed a positive detection for 6:2FTS (0.275 ng/L). The associated positive detection in sample RMW04_041818 is qualified as "U" based on potential high bias.

The method blank for batch WG1108323 displayed positive detections for PFOA (0.912 ng/L), PFOS (0.172 ng/L), PFDaA (0.180 ng/L), PFTTrDA (0.172 ng/L) and PFTA (0.208 ng/L). The associated positive detections in samples RMW02_041818, RMW04_041818, RGWDUP01_041818 and RGWFB01_041818 are qualified as "U" based on potential high bias.

L1813851:

The surrogate MPFBA exhibited a percent recovery below the lower control limit for the analysis of sample RMW08_041918 (45%). The associated result is qualified as "J" based on potential low bias.

The surrogate M2-6:2FTS exhibited percent recoveries greater than the upper control limit for samples RMW01_041918 (171%), RMW07_041918 (187%) and RMW08_041918 (256%). The associated positive detections are qualified as "J" based on potential high bias.

The surrogate M8FOSA exhibited percent recoveries below the lower control limit for sample RMW01_041918 (19%), RMW05_041918 (29%), RMW_06_041918 (21%), RMW07_041918 (44%) and RMW09_041918 (29%). The associated results are qualified as "J" or "UJ" based on potential low bias.

The method blank for batch WG1108825 displayed a positive detection for PFOS (0.168 ng/L). The associated positive detection in sample RMW05_041918 is qualified as "U" based on potential high bias.

Metals by USEPA Method 6020A:

L1813566:

The field blank collected on 4/18/2018 displayed positive detections for dissolved chromium (0.00035 mg/L) and dissolved copper (0.00077 mg/L). The associated positive detections in

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samples RMW02_041818, RMW04_041818 and RGWDUP01_041818 are qualified as "U" based on potential high bias.

The method blank for batch WG1108378 displayed positive detections for dissolved antimony (0.00206 mg/L) and dissolved sodium (0.474 mg/L). The associated positive detections in samples RMW02_041818, RMW03_041818, RMW04_041818 and RGWFB01_041818 are qualified as "U" based on potential high bias.

The method blank for batch WG1108284 displayed positive detections for total antimony (0.00063 mg/L) and total sodium (0.0462 mg/L). The associated positive detections in samples RMW02_041818 and RGWFB01_041818 are qualified as "U" based on potential high bias.

The MS for batch WG1813566 exhibited percent recoveries greater than the upper control limit for total copper (127%) and total zinc (138%). The associated positive detections in samples RMW02_041818, RMW03_041818, RMW04_041818 and RGWDUP01_041818 are qualified as "J" based on potential high bias.

The MS for batch WG1813566 exhibited percent recoveries below the lower control limit for total antimony (48%) and total selenium (67%). The associated results in samples RMW02_041818, RMW03_041818, RMW04_041818, RGWDUP01_041818 and RGWFB01_041818 are qualified as "J" or "UJ" based on potential low bias.

The serial dilution for batch WG1108378 exhibited %Ds greater than the control limit (i.e. 10%) for dissolved manganese (12%) and dissolved sodium (14%). The associated results in samples RMW02_041818, RMW03_041818, RMW04_041818, RGWDUP01_041818 and RGWFB01_041818 are qualified as "J" or "UJ" based on potential indeterminate bias.

The field duplicate RGWDUP01_041818 and parent sample RMW02_041818 exhibited RPDs greater than the upper control limit (i.e. 30%) for total aluminum (69.1%), total barium (49.7%), total beryllium (89.8%), total cadmium (52.3%), total chromium (63.8%), total cobalt (112%), total copper (77.7%), total iron (84.4%), total lead (109%), total magnesium (49.3%), total manganese (89.0%), total nickel (79.1%), total selenium (67.6%), total vanadium (70.8%) and total zinc (69.8%). The results in the parent and duplicate samples are qualified as "J" based on potential indeterminate bias.

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L1813851:

The method blank for batch WG1108387 displayed positive detections for dissolved aluminum (0.00985 mg/L), dissolved cadmium (0.00009 mg/L) and dissolved iron (0.0402 mg/L). The associated positive detections in samples RMW01_041918, RMW05_041918, RMW06_041918, RMW07_041918, RMW08_041918 and RMW09_041918 are qualified as "U" based on potential high bias.

The method blank for batch WG1108397 displayed a positive detection for total antimony at a concentration of 0.00061 mg/L. The associated positive detections in samples RMW01_041918, RMW05_041918, RMW06_041918, RMW07_041918 and RMW09_041918 are qualified as "U" based on potential high bias.

The MS for batch WG1108397 exhibited a percent recovery greater than the upper control limit (i.e. 125%) for total aluminum (144%). The associated positive detections in samples RMW01_041918, RMW05_041918, RMW06_041918, RMW07_041918, RMW08_041918 and RMW09_041918 are qualified as "J" based on potential high bias.

Cyanide by USEPA Methods 9010C/9012B:

L1813851:

The matrix spike duplicate for batch WG1108205 exhibited a percent recovery greater than the upper control limit for total cyanide (241%). The associated positive detections in samples RMW06_041918 and RMW07_041918 are qualified as "J" based on potential high bias.

The MS/MSD for batch WG1108205 exhibited an RPD greater than the control limit for total cyanide (88%). The associated results in samples RMW01_041918, RMW05_041918, RMW08_041918 and RMW09_041918 are qualified as "UJ" based on potential indeterminate bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The other deficiencies are identified below.

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VOCs by USEPA Method 8260C:

L1813566:

The method blank for batch WG1108906 displayed positive detections for 1,2-dichloroethane and hexachlorobutadiene at concentrations of 0.18 µg/L and 0.72 µg/L. The associated results are non-detects; no qualification is necessary.

L1813851:

The MS/MSD pair for parent sample RMW06_041918 exhibited non-conformances associated with 1,4-dioxane. No qualification is necessary for organics based on MS non-conformances.

SVOCs by USEPA Method 8270D:

L1813566:

The field blank collected on 4/18/2018 displayed a positive detection for bis(2-ethylhexyl)phthalate (2.0 µg/L). This contamination originated in the method blank; no further action is necessary.

The field blank collected on 4/18/2018 displayed positive detections for 2-chloronaphthalene (0.04 µg/L), naphthalene (0.06 µg/L) and 2-methylnaphthalene (0.05 µg/L). The associated results are greater than three times the blank contamination; no qualification is necessary.

L1813851:

The surrogate 2,4,6-tribromophenol exhibited a percent recovery greater than the upper control limit (i.e. 120%) in sample RMW07_041918 (127%). The other two acid-extractable surrogates exhibited recoveries within their respective control limits; no qualification is necessary.

The MS/MSD for parent sample RMW06_041918 exhibited percent recoveries greater than the upper control limit for p-chloro-m-cresol. No qualification is necessary for organics based on MS non-conformances.

The CCV analyzed on 4/24/2018 at 13:04 exhibited a %D greater than the control limit for bis(2-chloroisopropyl)ether (-28.7%). The investigative sample results are not associated with this calibration; no qualification is necessary.

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The LCS/LCSD for batch WG1108705 exhibited recoveries greater than the upper control limit (i.e. 97%) for p-chloro-m-cresol (111%/108%). The associated results are non-detects; no qualification is necessary.

Herbicides by USEPA Method 8151:

L1813566:

The surrogate DCAA exhibited percent recoveries greater than the upper control limit (i.e. 150%) in sample RMW03_041818 (156%) and RGWDUP01_041818 (151%). The associated results are non-detects; no qualification is necessary.

PFCs by USEPA Method 537(M):

L1813566:

The surrogate M2-6:2FTS exhibited a percent recovery greater than the upper control limit (i.e. 150%) in sample RWDUP01_041818 (176%). The associated result is non-detect; no qualification is necessary.

The surrogate M2-8:2FTS exhibited a percent recovery greater than the upper control limit for RMW03_041818 (202%). The associated result is non-detect; no qualification is necessary.

The surrogate D3-NMEFOSAA exhibited a percent recovery below the lower control limit (i.e. 50%) in sample RMW03_041818 (38%). The associated result is non-detect; no qualification is necessary.

The surrogate M8FOSA exhibited percent recoveries below the lower control limit in samples RMW02_041818 (39%), RGWDUP01_041818 (18%) and RMW03_041818 (6%). The associated results are non-detects; no qualification is necessary.

The surrogate M2PFTEDA exhibited a percent recovery greater than the upper control limit for RMW04_041818 (323%). The associated result is non-detect; no qualification is necessary.

The field blank collected on 4/18/2018 displayed positive detections for PFOA (0.728 ng/L), PFOS (0.239 ng/L) and PFDoA (0.096 ng/L). The associated results are non-detects or are greater than three times the blank contamination; no qualification is necessary.

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L1813851:

The surrogate M2-6:2FTS exhibited percent recoveries greater than the upper control limit for samples RMW05_041918 (192%) and RMW06_041918 (169%). The associated results are non-detects; no qualification is necessary.

The surrogate M2-8:2FTS exhibited percent recoveries greater than the upper control limit in samples RMW07_041918 (195%) and RMW08_041918 (183%). The associated results are non-detects; no qualification is necessary.

The method blank for batch WG1108825 displayed a positive detection for PFOA (0.844 ng/L). The associated results are non-detects or are greater than three times the blank contamination; no qualification is necessary.

Metals by USEPA Method 6020A:

L1813566:

The MS for batch WG1108378 exhibited percent recoveries below the lower control limit for dissolved sodium and dissolved calcium. The original sample results are greater than four times the spiked amount; no qualification is necessary.

The MS for batch WG1108284 exhibited percent recoveries outside the control limits for total aluminum, total calcium, total iron, total magnesium, total manganese and total sodium. The original sample results are greater than four times the spiked amount; no qualification is necessary.

The field blank collected on 4/18/2018 displayed positive detections for dissolved antimony (0.00082 mg/L) and dissolved sodium (0.120 mg/L). This contamination originated from the method blank; no further action is necessary.

The method blank for batch WG1108284 displayed a positive detection for total manganese (0.00229 mg/L). The associated results are greater than ten times the blank contamination; no qualification is necessary.

The field blank collected on 4/18/2018 displayed positive detections for total aluminum (0.00590 mg/L), total chromium (0.00034 mg/L) and total sodium (0.0898 mg/L). The associated results are greater than three times the blank contamination; no qualification is necessary.

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L1813851:

The MS/MSD for batch WG1108387 exhibited percent recoveries below the lower control limit for dissolved calcium, dissolved manganese and dissolved sodium. The original sample results are greater than four times the spiked amount; no qualification is necessary.

The MS for batch WG1108397 exhibited a percent recovery below the lower control limit for total calcium (30%). The parent sample did not originate from the site; no qualification is necessary.

The MS/MSD for batch WG1108397 exhibited percent recoveries outside the control limit for total calcium, total manganese and total sodium. The original sample results are greater than four times the spiked amount; no qualification is necessary.

The method blank for batch WG1108387 displayed a positive detection for dissolved sodium (0.0348 mg/L). The associated positive results are greater than ten times the blank contamination; no qualification is necessary.

Cyanide by USEPA Methods 9010C/9012B:

L1813851:

The MS/MSD for batch WG1108933 exhibited non-conformances for total cyanide. The parent sample did not originate from the site; no qualification is necessary.

COMMENTS:

The followings field duplicate and parent sample pairs were evaluated for precision:

- RMW02_041818 & RGWDUP01_041818

For results greater than two times the reporting limit, the relative percent difference (RPD) must be less than thirty percent to meet the precision criteria. For results less than two times the reporting limit, the absolute difference between the results must be less than the reporting limit. All, if any, non-conformances associated with this evaluation are described in detail in the minor non-conformances section.

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned

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above, that means that all specified criteria were met for that parameter. All laboratory data packages met ASP Category B requirements and all sample holding times were met.

All data are considered usable with the exception of the results qualified as "R" in the major deficiencies section. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 99%.

Signed:



Emily Strake, CEP
Senior Project Chemist/Risk Assessor

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Mailing Address: P.O. Box 1569 Doylestown, PA 18901

To: Andrea Scher, Langan Senior Staff Scientist

From: Emily Strake, Langan Senior Project Chemist/Risk Assessor

Date: May 15, 2018

Re: Data Usability Summary Report
For 4650 Broadway
Manhattan, New York
Soil Samples Collected April 2018
Langan Project No.: 170505501

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of soil samples collected on April 9 through April 11, 2018 by Langan Engineering and Environmental Services ("Langan") at 4650 Broadway located in Manhattan, New York. The samples were analyzed by Alpha Analytical located in Mansfield, MA and Westborough, MA (NYSDOH ELAP registrations #11627 and #11148) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, total metals, total mercury (Hg), cyanide (CN), hexavalent chromium (CrVI) and general chemistry parameters using the analytical method specified below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D and 8270D with selective ion monitoring (SIM)
- PCBs by SW-846 8082A
- Pesticides by SW-848 8081B
- Herbicides by SW-846 8151A
- Metals by SW-846 6010C
- Mercury by SW-846 7471B
- CN by USEPA Method 9012B
- CrVI by SW-846 7196A
- Total Solids (%S) by Standard Method 2540G

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Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

TABLE 1: SAMPLE SUMMARY

SDG	Lab Sample ID	Client Sample ID	Sample Date	Analytical Parameters
L1812210	L1812210-01	RSB04_6-7	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-02	RSB04_1-2	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-03	RSB04_10-11	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-04	RSB10_1-2	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-05	RSB10_9-10	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-06	RSB11_8-9	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-07	RSB11_5-6	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-08	RSB11_1-2	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-09	RSB12_1-2	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-10	RSB12_7-8	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-11	RSB12_5-6	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-12	RSBDUP01_040918	4/9/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812210	L1812210-13	RSBTB01_040918	4/9/2018	VOCs

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SDG	Lab Sample ID	Client Sample ID	Sample Date	Analytical Parameters
L1812435	L1812435-01	RSB05_0-1	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-02	RSB05_6-7	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-03	RSB06_1-2	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-04	RSB06_7-8	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-05	RSB07_1-2	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-06	RSB07_7-8	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-07	RSB08_1-2	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-08	RSB08_7-8	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-09	RSB08_14-15	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-10	RSB13_1-2	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-11	RSB13_7-8	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-12	RSB14_1-2	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-13	RSB14_10-11	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S

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<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
L1812435	L1812435-14	RSB14_7-8	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-15	RSB15_0-1	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-16	RSB15_11-12	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-17	RSB15_7-8	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812435	L1812435-18	RSBFB01_041018	4/10/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI
L1812435	L1812435-19	RSBTB02_041018	4/10/2018	VOCs
L1812618	L1812618-01	RSB01_1-2	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812618	L1812618-02	RSB01_6-7	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812618	L1812618-03	RSB01_10-11	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812618	L1812618-04	RSB02_0-1	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812618	L1812618-05	RSB02_6-7	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812618	L1812618-06	RSB03_0-1	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812618	L1812618-07	RSB03_7-8	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812618	L1812618-08	RSB09_1-2	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S

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<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
L1812618	L1812618-09	RSB09_7-8	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812618	L1812618-10	RSBDUP02_041118	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI, %S
L1812618	L1812618-11	RSFB02_041118	4/11/2018	VOCs, SVOCs, PCBs, Pests, Herbs, Metals, Hg, CN, CrVI
L1812618	L1812618-12	RSBTB03_041118	4/11/2018	VOCs

VALIDATION OVERVIEW

This data validation was performed in accordance with USEPA Region II SOP #HW-33A, "Low/Medium Volatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-35A, "Semivolatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-37A, "PCB Aroclor Data Validation" (June 2015, Revision 0), USEPA Region II SOP #HW-36A, "Pesticide Data Validation" (October 2016, Revision 1), USEPA Region II SOP #HW-17, "Validating Chlorinated Herbicides" (December 2010, Revision 3.1), USEPA Region II SOP #HW-3a, "ICP-AES Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-3c, "Mercury and Cyanide Data Validation" (September 2016, Revision 1), "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA-540-R-2017-002, January 2017), the USEPA Contract Laboratory Program, "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA-540-R-2017-001, January 2017) and the specifics of the methods employed.

Validation includes evaluation of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include sample preservation, holding times, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, matrix spike/matrix spike duplicates, laboratory duplicates, extraction/digestion logs, serial dilutions, interference checks, post-spike samples, initial and continuing calibration blanks, system monitoring compounds, internal standard area counts, field duplicates, trip blanks, field blanks, target compound identification and quantification, chromatograms, and overall system performance.

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As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U** – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- NJ** – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items subject to review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

TABLE 2: VALIDATOR-APPLIED QUALIFICATION

<i>Project Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS No.</i>	<i>Validator Qualifier</i>
L1812210				
RSB04_6-7	6010C	Total Calcium	7440-70-2	J
RSB04_6-7	6010C	Total Magnesium	7439-95-4	J
RSB04_6-7	SW7196A	Chromium, Hexavalent	18540-29-9	UJ
RSB04_6-7	SW8260C	Acetone	67-64-1	UJ
RSB04_6-7	SW8260C	Bromomethane	74-83-9	U (140)
RSB04_6-7	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB04_6-7	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB04_6-7	SW9012B	Cyanide	57-12-5	UJ
RSB04_1-2	6010C	Total Calcium	7440-70-2	J
RSB04_1-2	6010C	Total Magnesium	7439-95-4	J
RSB04_1-2	SW7196A	Chromium, Hexavalent	18540-29-9	J

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<i>Project Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS No.</i>	<i>Validator Qualifier</i>
RSB04_1-2	SW7471B	Total Mercury	7439-97-6	J
RSB04_1-2	SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	UJ
RSB04_1-2	SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	UJ
RSB04_1-2	SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	UJ
RSB04_1-2	SW8260C	1,1-Dichloroethene	75-35-4	UJ
RSB04_1-2	SW8260C	2-Hexanone	591-78-6	UJ
RSB04_1-2	SW8260C	Acetone	67-64-1	J
RSB04_1-2	SW8260C	Bromomethane	74-83-9	UJ
RSB04_1-2	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB04_1-2	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB04_1-2	SW9012B	Cyanide	57-12-5	UJ
RSB04_10-11	6010C	Total Calcium	7440-70-2	J
RSB04_10-11	6010C	Total Magnesium	7439-95-4	J
RSB04_10-11	SW7196A	Chromium, Hexavalent	18540-29-9	J
RSB04_10-11	SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	UJ
RSB04_10-11	SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	UJ
RSB04_10-11	SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	UJ
RSB04_10-11	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB04_10-11	SW8260C	Methyl Ethyl Ketone (2-Butanone)	78-93-3	UJ
RSB04_10-11	SW8260C	Acetone	67-64-1	J
RSB04_10-11	SW8260C	Chloromethane	74-87-3	UJ
RSB04_10-11	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB04_10-11	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB04_10-11	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB04_10-11	SW9012B	Cyanide	57-12-5	UJ
RSB10_1-2	6010C	Total Calcium	7440-70-2	J
RSB10_1-2	6010C	Total Magnesium	7439-95-4	J
RSB10_1-2	SW7196A	Chromium, Hexavalent	18540-29-9	UJ
RSB10_1-2	SW7471B	Total Mercury	7439-97-6	J
RSB10_1-2	SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	UJ
RSB10_1-2	SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	UJ
RSB10_1-2	SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	UJ

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<i>Project Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS No.</i>	<i>Validator Qualifier</i>
RSB10_1-2	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB10_1-2	SW8260C	Methyl Ethyl Ketone (2-Butanone)	78-93-3	UJ
RSB10_1-2	SW8260C	Acetone	67-64-1	J
RSB10_1-2	SW8260C	Chloromethane	74-87-3	UJ
RSB10_1-2	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB10_1-2	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB10_1-2	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB10_1-2	SW9012B	Cyanide	57-12-5	UJ
RSB10_9-10	6010C	Total Calcium	7440-70-2	J
RSB10_9-10	6010C	Total Magnesium	7439-95-4	J
RSB10_9-10	SW7196A	Chromium, Hexavalent	18540-29-9	UJ
RSB10_9-10	SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	UJ
RSB10_9-10	SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	UJ
RSB10_9-10	SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	UJ
RSB10_9-10	SW8260C	Acetone	67-64-1	UJ
RSB10_9-10	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB10_9-10	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB10_9-10	SW9012B	Cyanide	57-12-5	UJ
RSB11_8-9	6010C	Total Calcium	7440-70-2	J
RSB11_8-9	6010C	Total Magnesium	7439-95-4	J
RSB11_8-9	SW7196A	Chromium, Hexavalent	18540-29-9	UJ
RSB11_8-9	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB11_8-9	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB11_8-9	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB11_8-9	SW9012B	Cyanide	57-12-5	UJ
RSB11_5-6	6010C	Total Calcium	7440-70-2	J
RSB11_5-6	6010C	Total Magnesium	7439-95-4	J
RSB11_5-6	SW7196A	Chromium, Hexavalent	18540-29-9	UJ
RSB11_5-6	SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	UJ
RSB11_5-6	SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	UJ
RSB11_5-6	SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	UJ
RSB11_5-6	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ

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<i>Project Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS No.</i>	<i>Validator Qualifier</i>
RSB11_5-6	SW8260C	Bromomethane	74-83-9	U (170)
RSB11_5-6	SW8270D	Isophorone	78-59-1	UJ
RSB11_5-6	SW9012B	Cyanide	57-12-5	UJ
RSB11_1-2	6010C	Total Calcium	7440-70-2	J
RSB11_1-2	6010C	Total Magnesium	7439-95-4	J
RSB11_1-2	SW7196A	Chromium, Hexavalent	18540-29-9	J
RSB11_1-2	SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	UJ
RSB11_1-2	SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	UJ
RSB11_1-2	SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	UJ
RSB11_1-2	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB11_1-2	SW8260C	Acetone	67-64-1	J
RSB11_1-2	SW8260C	Bromomethane	74-83-9	UJ
RSB11_1-2	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB11_1-2	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB11_1-2	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB11_1-2	SW9012B	Cyanide	57-12-5	UJ
RSB12_1-2	6010C	Total Calcium	7440-70-2	J
RSB12_1-2	6010C	Total Magnesium	7439-95-4	J
RSB12_1-2	SW7196A	Chromium, Hexavalent	18540-29-9	J
RSB12_1-2	SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	UJ
RSB12_1-2	SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	UJ
RSB12_1-2	SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	UJ
RSB12_1-2	SW8260C	1,1-Dichloroethene	75-35-4	UJ
RSB12_1-2	SW8260C	2-Hexanone	591-78-6	UJ
RSB12_1-2	SW8260C	Acetone	67-64-1	J
RSB12_1-2	SW8260C	Bromomethane	74-83-9	UJ
RSB12_1-2	SW8270D	Isophorone	78-59-1	UJ
RSB12_1-2	SW9012B	Cyanide	57-12-5	UJ
RSB12_7-8	6010C	Total Calcium	7440-70-2	J
RSB12_7-8	6010C	Total Magnesium	7439-95-4	J
RSB12_7-8	SW7196A	Chromium, Hexavalent	18540-29-9	J
RSB12_7-8	SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	UJ

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RSB12_7-8	SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	UJ
RSB12_7-8	SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	UJ
RSB12_7-8	SW8260C	1,1-Dichloroethene	75-35-4	UJ
RSB12_7-8	SW8260C	2-Hexanone	591-78-6	UJ
RSB12_7-8	SW8260C	Acetone	67-64-1	J
RSB12_7-8	SW8260C	Bromomethane	74-83-9	UJ
RSB12_7-8	SW8270D	Isophorone	78-59-1	UJ
RSB12_7-8	SW9012B	Cyanide	57-12-5	UJ
RSB12_5-6	6010C	Cobalt	7440-48-4	J
RSB12_5-6	SW7196A	Chromium, Hexavalent	18540-29-9	J
RSB12_5-6	SW7471B	Total Mercury	7439-97-6	J
RSB12_5-6	SW8260C	1,1-Dichloroethene	75-35-4	UJ
RSB12_5-6	SW8260C	2-Hexanone	591-78-6	UJ
RSB12_5-6	SW8260C	Acetone	67-64-1	J
RSB12_5-6	SW8260C	Bromomethane	74-83-9	UJ
RSB12_5-6	SW8270D	Isophorone	78-59-1	UJ
RSB12_5-6	SW9012B	Cyanide	57-12-5	UJ
RSBDUP01_040918	6010C	Total Cobalt	7440-48-4	J
RSBDUP01_040918	SW7196A	Chromium, Hexavalent	18540-29-9	J
RSBDUP01_040918	SW7471B	Total Mercury	7439-97-6	J
RSBDUP01_040918	SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	UJ
RSBDUP01_040918	SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	UJ
RSBDUP01_040918	SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	UJ
RSBDUP01_040918	SW8260C	1,1-Dichloroethene	75-35-4	UJ
RSBDUP01_040918	SW8260C	2-Hexanone	591-78-6	UJ
RSBDUP01_040918	SW8260C	Acetone	67-64-1	J
RSBDUP01_040918	SW8260C	Bromomethane	74-83-9	UJ
RSBDUP01_040918	SW8270D	Isophorone	78-59-1	UJ
RSBDUP01_040918	SW9012B	Cyanide	57-12-5	UJ
RSBTB01_040918	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSBTB01_040918	SW8260C	Chloromethane	74-87-3	UJ
RSBTB01_040918	SW8260C	Styrene	100-42-5	UJ

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RSB10_1-2	6010C	Total Barium	7440-39-3	J
RSB10_1-2	6010C	Total Lead	7439-92-1	J
RSB10_1-2	6010C	Total Zinc	7440-66-6	J
RSBDUP01_040918	6010C	Total Barium	7440-39-3	J
RSBDUP01_040918	6010C	Total Calcium	7440-70-2	J
RSBDUP01_040918	6010C	Total Lead	7439-92-1	J
RSBDUP01_040918	6010C	Total Zinc	7440-66-6	J
L1812435				
RSB05_0-1	6010C	Total Calcium	7440-70-2	J
RSB05_0-1	6010C	Total Manganese	7439-96-5	J
RSB05_0-1	6010C	Total Nickel	7440-02-0	J
RSB05_0-1	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB05_0-1	SW8260C	Acetone	67-64-1	UJ
RSB05_0-1	SW8260C	Bromomethane	74-83-9	UJ
RSB05_0-1	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB05_0-1	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB05_0-1	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB05_0-1	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB05_0-1	SW9012B	Cyanide	57-12-5	UJ
RSB05_6-7	6010C	Total Calcium	7440-70-2	J
RSB05_6-7	6010C	Total Manganese	7439-96-5	J
RSB05_6-7	6010C	Total Nickel	7440-02-0	J
RSB05_6-7	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
RSB05_6-7	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
RSB05_6-7	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
RSB05_6-7	SW8082A	PCB-1242 (Aroclor 1242)	53469-21-9	UJ
RSB05_6-7	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB05_6-7	SW8260C	Acetone	67-64-1	J
RSB05_6-7	SW8260C	Bromomethane	74-83-9	UJ
RSB05_6-7	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB05_6-7	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB05_6-7	SW8270D	4-Chloroaniline	106-47-8	UJ

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RSB05_6-7	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RSB05_6-7	SW9012B	Cyanide	57-12-5	UJ
RSB06_1-2	6010C	Total Calcium	7440-70-2	J
RSB06_1-2	6010C	Total Manganese	7439-96-5	J
RSB06_1-2	6010C	Total Nickel	7440-02-0	J
RSB06_1-2	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB06_1-2	SW8260C	Acetone	67-64-1	J
RSB06_1-2	SW8260C	Bromomethane	74-83-9	UJ
RSB06_1-2	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB06_1-2	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB06_1-2	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB06_1-2	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB06_1-2	SW9012B	Cyanide	57-12-5	UJ
RSB06_7-8	6010C	Total Calcium	7440-70-2	J
RSB06_7-8	6010C	Total Manganese	7439-96-5	J
RSB06_7-8	6010C	Total Nickel	7440-02-0	J
RSB06_7-8	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB06_7-8	SW8260C	Acetone	67-64-1	J
RSB06_7-8	SW8260C	Bromomethane	74-83-9	UJ
RSB06_7-8	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB06_7-8	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB06_7-8	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB06_7-8	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB06_7-8	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RSB06_7-8	SW9012B	Cyanide	57-12-5	UJ
RSB07_1-2	6010C	Total Calcium	7440-70-2	J
RSB07_1-2	6010C	Total Manganese	7439-96-5	J
RSB07_1-2	6010C	Total Nickel	7440-02-0	J
RSB07_1-2	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB07_1-2	SW8260C	Acetone	67-64-1	UJ
RSB07_1-2	SW8260C	Bromomethane	74-83-9	UJ
RSB07_1-2	SW8260C	Dichlorodifluoromethane	75-71-8	UJ

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RSB07_1-2	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB07_1-2	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB07_1-2	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB07_1-2	SW9012B	Cyanide	57-12-5	UJ
RSB07_7-8	6010C	Total Calcium	7440-70-2	J
RSB07_7-8	6010C	Total Manganese	7439-96-5	J
RSB07_7-8	6010C	Total Nickel	7440-02-0	J
RSB07_7-8	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB07_7-8	SW8260C	Acetone	67-64-1	J
RSB07_7-8	SW8260C	Bromomethane	74-83-9	UJ
RSB07_7-8	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB07_7-8	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB07_7-8	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RSB07_7-8	SW9012B	Cyanide	57-12-5	UJ
RSB08_1-2	6010C	Total Calcium	7440-70-2	J
RSB08_1-2	6010C	Total Manganese	7439-96-5	J
RSB08_1-2	6010C	Total Nickel	7440-02-0	J
RSB08_1-2	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB08_1-2	SW8260C	Acetone	67-64-1	UJ
RSB08_1-2	SW8260C	Bromomethane	74-83-9	UJ
RSB08_1-2	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB08_1-2	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB08_1-2	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RSB08_1-2	SW9012B	Cyanide	57-12-5	UJ
RSB08_7-8	6010C	Total Calcium	7440-70-2	J
RSB08_7-8	6010C	Total Manganese	7439-96-5	J
RSB08_7-8	6010C	Total Nickel	7440-02-0	J
RSB08_7-8	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB08_7-8	SW8260C	Acetone	67-64-1	UJ
RSB08_7-8	SW8260C	Bromomethane	74-83-9	UJ
RSB08_7-8	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB08_7-8	SW8260C	Vinyl Chloride	75-01-4	UJ

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RSB08_7-8	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RSB08_7-8	SW9012B	Cyanide	57-12-5	UJ
RSB08_14-15	6010C	Total Calcium	7440-70-2	J
RSB08_14-15	6010C	Total Manganese	7439-96-5	J
RSB08_14-15	6010C	Total Nickel	7440-02-0	J
RSB08_14-15	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB08_14-15	SW8260C	Acetone	67-64-1	J
RSB08_14-15	SW8260C	Bromomethane	74-83-9	UJ
RSB08_14-15	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB08_14-15	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB08_14-15	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB08_14-15	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB08_14-15	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RSB08_14-15	SW9012B	Cyanide	57-12-5	UJ
RSB13_1-2	6010C	Total Calcium	7440-70-2	J
RSB13_1-2	6010C	Total Manganese	7439-96-5	J
RSB13_1-2	6010C	Total Nickel	7440-02-0	J
RSB13_1-2	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB13_1-2	SW8260C	Acetone	67-64-1	J
RSB13_1-2	SW8260C	Bromomethane	74-83-9	UJ
RSB13_1-2	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB13_1-2	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB13_1-2	SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	UJ
RSB13_1-2	SW9012B	Cyanide	57-12-5	UJ
RSB13_7-8	6010C	Total Calcium	7440-70-2	J
RSB13_7-8	6010C	Total Manganese	7439-96-5	J
RSB13_7-8	6010C	Total Nickel	7440-02-0	J
RSB13_7-8	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
RSB13_7-8	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
RSB13_7-8	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
RSB13_7-8	SW8082A	PCB-1242 (Aroclor 1242)	53469-21-9	UJ
RSB13_7-8	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ

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RSB13_7-8	SW8260C	Acetone	67-64-1	J
RSB13_7-8	SW8260C	Bromomethane	74-83-9	UJ
RSB13_7-8	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB13_7-8	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB13_7-8	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB13_7-8	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB13_7-8	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RSB13_7-8	SW9012B	Cyanide	57-12-5	UJ
RSB14_1-2	6010C	Total Calcium	7440-70-2	J
RSB14_1-2	6010C	Total Manganese	7439-96-5	J
RSB14_1-2	6010C	Total Nickel	7440-02-0	J
RSB14_1-2	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
RSB14_1-2	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
RSB14_1-2	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
RSB14_1-2	SW8082A	PCB-1242 (Aroclor 1242)	53469-21-9	UJ
RSB14_1-2	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB14_1-2	SW8260C	Acetone	67-64-1	UJ
RSB14_1-2	SW8260C	Bromomethane	74-83-9	UJ
RSB14_1-2	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB14_1-2	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB14_1-2	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB14_1-2	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB14_1-2	SW9012B	Cyanide	57-12-5	UJ
RSB14_10-11	6010C	Total Calcium	7440-70-2	J
RSB14_10-11	6010C	Total Manganese	7439-96-5	J
RSB14_10-11	6010C	Total Nickel	7440-02-0	J
RSB14_10-11	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
RSB14_10-11	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
RSB14_10-11	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
RSB14_10-11	SW8082A	PCB-1242 (Aroclor 1242)	53469-21-9	UJ
RSB14_10-11	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB14_10-11	SW8260C	Acetone	67-64-1	J

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RSB14_10-11	SW8260C	Bromomethane	74-83-9	UJ
RSB14_10-11	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB14_10-11	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB14_10-11	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB14_10-11	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB14_10-11	SW9012B	Cyanide	57-12-5	UJ
RSB14_7-8	6010C	Total Calcium	7440-70-2	J
RSB14_7-8	6010C	Total Manganese	7439-96-5	J
RSB14_7-8	6010C	Total Nickel	7440-02-0	J
RSB14_7-8	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
RSB14_7-8	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
RSB14_7-8	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
RSB14_7-8	SW8082A	PCB-1242 (Aroclor 1242)	53469-21-9	UJ
RSB14_7-8	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB14_7-8	SW8260C	Acetone	67-64-1	J
RSB14_7-8	SW8260C	Bromomethane	74-83-9	UJ
RSB14_7-8	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB14_7-8	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB14_7-8	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB14_7-8	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB14_7-8	SW9012B	Cyanide	57-12-5	J
RSB15_0-1	6010C	Total Calcium	7440-70-2	J
RSB15_0-1	6010C	Total Manganese	7439-96-5	J
RSB15_0-1	6010C	Total Nickel	7440-02-0	J
RSB15_0-1	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB15_0-1	SW8260C	Acetone	67-64-1	UJ
RSB15_0-1	SW8260C	Bromomethane	74-83-9	UJ
RSB15_0-1	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB15_0-1	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB15_0-1	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB15_0-1	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB15_0-1	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ

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RSB15_0-1	SW9012B	Cyanide	57-12-5	UJ
RSB15_11-12	6010C	Total Calcium	7440-70-2	J
RSB15_11-12	6010C	Total Manganese	7439-96-5	J
RSB15_11-12	6010C	Total Nickel	7440-02-0	J
RSB15_11-12	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB15_11-12	SW8260C	Acetone	67-64-1	J
RSB15_11-12	SW8260C	Bromomethane	74-83-9	UJ
RSB15_11-12	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB15_11-12	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB15_11-12	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB15_11-12	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB15_11-12	SW9012B	Cyanide	57-12-5	UJ
RSB15_7-8	6010C	Total Calcium	7440-70-2	J
RSB15_7-8	6010C	Total Manganese	7439-96-5	J
RSB15_7-8	6010C	Total Nickel	7440-02-0	J
RSB15_7-8	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSB15_7-8	SW8260C	Acetone	67-64-1	UJ
RSB15_7-8	SW8260C	Bromomethane	74-83-9	UJ
RSB15_7-8	SW8260C	Dichlorodifluoromethane	75-71-8	UJ
RSB15_7-8	SW8260C	Vinyl Chloride	75-01-4	UJ
RSB15_7-8	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSB15_7-8	SW8270D	2-Nitrophenol	88-75-5	UJ
RSB15_7-8	SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	UJ
RSBFB01_041018	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
RSBFB01_041018	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
RSBFB01_041018	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
RSBFB01_041018	SW8082A	PCB-1242 (Aroclor 1242)	53469-21-9	UJ
RSBFB01_041018	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSBFB01_041018	SW8260C	Chloromethane	74-87-3	UJ
RSBFB01_041018	SW8260C	Hexachlorobutadiene	87-68-3	UJ
RSBFB01_041018	SW8260C	Styrene	100-42-5	UJ
RSBFB01_041018	SW8260C	Vinyl Chloride	75-01-4	UJ

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
RSBFB01_041018	SW8270D	2,4-Dinitrotoluene	121-14-2	UJ
RSBFB01_041018	SW8270D	2-Nitrophenol	88-75-5	UJ
RSBFB01_041018	SW8270D	Benzoic Acid	65-85-0	UJ
RSBTB02_041018	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
RSBTB02_041018	SW8260C	Chloromethane	74-87-3	UJ
RSBTB02_041018	SW8260C	Hexachlorobutadiene	87-68-3	UJ
RSBTB02_041018	SW8260C	Styrene	100-42-5	UJ
RSBTB02_041018	SW8260C	Vinyl Chloride	75-01-4	UJ

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The minor deficiencies are identified below.

VOCs by SW-846 Method 8260C:

L1812210:

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) for batch WG1105800 exhibited percent recoveries greater than the upper control limit for acetone (206%/186%). The associated positive detections in samples RSB04_10-11 and RSB10_1-2 are qualified as "J" based on potential high bias.

The LCS/LCSD for batch WG1105944 exhibited percent recoveries greater than the upper control limit for acetone (223%/232%). The associated positive detections in samples RSB04_1-2, RSB12_1-2, RSB12_7-8, RSB12_5-6 and RSB04_1-2 are qualified as "J" based on potential high bias.

The LCSD for batch WG1105944 exhibited a percent recovery below the lower control limit for 1,1-dichloroethene (62%). The associated results in samples RSB04_1-2, RSB12_1-2, RSB12_7-8, RSB12_5-6 and RSB04_1-2 are qualified as "J" or "UJ" based on potential low bias.

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The LCS/LCSD for batch WG1106150 exhibited percent recoveries greater than the upper control limit for acetone (177%/143%). The associated positive detection in sample RSB11_1-2 is qualified as "J" based on potential high bias.

The method blank for batch WG1105799 displayed a positive detection for bromomethane at a concentration of 170 µg/kg. The associated positive detection in sample RSB11_5-6 is qualified as "U" based on potential high bias.

The method blank for batch WG1106004 displayed a positive detection for bromomethane at a concentration at a concentration of 44 µg/kg. The associated positive detection in sample RSB04_6-7 is qualified as "U" based on potential high bias.

The initial calibrations (ICAL) analyzed for instruments VOA117, VOA122 and VOA104 exhibited low average response factors (RFs) for 1,4-dioxane (0.002, 0.001 and 0.003, respectively). The associated results in samples RSB04_10-11, RSB10_1-2, RSB11_8-9, RSB11_5-6, RSB11_1-2 and RSBTB01_040918 are qualified as "UJ" based on potential indeterminate bias.

The initial calibration verification (ICV) analyzed on 3/15/2018 at 3:02 exhibited a percent difference (%D) greater than the control limit (i.e. 30%) for bromomethane (40.4%). The associated results in samples RSB04_1-2, RSB12_1-2, RSB12_7-8, RSB12_5-6 and RSBBDUP01_040918 are qualified as "UJ" based on potential indeterminate bias.

The ICV analyzed on 3/26/2018 at 8:09 p.m. exhibited %Ds greater than the control limit for dichlorodifluoromethane (50.8%) and bromomethane (66.3%). The associated results in sample 08 are qualified as "UJ" based on potential indeterminate bias.

The continuing calibration verification (CCV) analyzed on 4/11/2018 at 16:06 exhibited %Ds greater than the control limit for chloromethane (80.6%), vinyl chloride (48.1%), acetone (106%) and 2-butanone (47.8%). The associated results in samples RSB04_10-11 and RSB10_1-2 are qualified as "J" or "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/12/2018 at 7:45 exhibited %Ds greater than the control limit for acetone (124.6%) and 2-hexanone (33.7%). The associated results in samples RSB04_1-2, RSB12_1-2, RSB12_7-8, RSB12_5-6 and RSBBDUP01_040918 are qualified as "J" or "UJ" based on potential indeterminate bias.

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The CCV analyzed on 4/12/2018 at 7:46 exhibited %Ds greater than the control limit for bromomethane (-35.6%) and acetone (65.1%). The associated results in sample RSB04_6-7 not previously qualified based on blank contamination are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/12/2018 at 8:22 exhibited %Ds greater than the control limit for chloromethane (37.3%), 1,4-dioxane (-31.8%) and styrene (36.3%). The associated results in sample RSBTB01_040918 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/12/2018 at 16:52 exhibited %Ds greater than the control limit for bromomethane (48.7%) and acetone (76.8%). The associated results in sample RSB11_1-2 are qualified as "J" or "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/17/2018 at 6:57 exhibited a %D greater than the control limit for acetone (34.6%). The associated result in sample RSB10_9-10 is qualified as "UJ" based on potential indeterminate bias.

L1812435:

The LCS/LCSD for batch WG1106150 exhibited percent recoveries greater than the upper control limits for acetone (177%/143%). The associated results in samples RSB05_6-7, RSB06_1-2, RSB06_7-8, RSB07_7-8, RSB08_14-15, RSB13_1-2, RSB13_7-8, RSB14_10-11, RSB14_7-8 and RSB15_11-12 are qualified as "J" based on potential high bias.

The ICALs analyzed for instruments VOA122 and VOA104 exhibited low average RFs for 1,4-dioxane (0.001 and 0.003, respectively). The associated results in samples RSB05_0-1, RSB05_6-7, RSB06_1-2, RSB06_7-8, RSB07_1-2, RSB07_7-8, RSB08_1-2, RSB08_7-8, RSB08_14-15, RSB13_1-2, RSB13_7-8, RSB14_1-2, RSB14_10-11, RSB14_7-8, RSB15_0-1, RSB15_11-12, RSB15_7-8, RSBFB01_041018 and RSBTB02_041018 are qualified as "UJ" based on potential indeterminate bias.

The ICV analyzed on 1/31/2018 at 2:05 exhibited a %D greater than the control limit for styrene (25.9%). The associated results in samples RSBFB01_041018 and RSBTB02_041018 are qualified as "UJ" based on potential indeterminate bias.

The ICV analyzed on 3/26/2018 at 8:09 p.m. exhibited %Ds greater than the control limit for dichlorodifluoromethane (50.8%) and bromomethane (66.3%). The associated results in

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samples RSB05_0-1, RSB05_6-7, RSB06_1-2, RSB06_7-8, RSB07_1-2, RSB07_7-8, RSB08_1-2, RSB08_7-8, RSB08_14-15, RSB13_1-2, RSB13_7-8, RSB14_1-2, RSB14_10-11, RSB14_7-8, RSB15_0-1, RSB15_11-12A and RSB15_7-8 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/12/2018 at 8:22 exhibited %Ds greater than the control limit for chloromethane (37.3%), vinyl chloride (29.4%), 1,4-dioxane (-31.8%), styrene (36.3%) and hexachlorobutadiene (-29.1%). The associated results in samples RSBFB01_041018 and RSBTB02_041018 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/12/2018 at 16:52 exhibited %Ds greater than the control limit for vinyl chloride (26%), bromomethane (48.7%) and acetone (76.8%). The associated results in samples RSB05_0-1, RSB05_6-7, RSB06_1-2, RSB06_7-8, RSB07_1-2, RSB07_7-8, RSB08_1-2, RSB08_7-8, RSB08_14-15, RSB13_1-2, RSB13_7-8, RSB14_1-2, RSB14_10-11, RSB14_7-8, RSB15_0-1, RSB15_11-12 and RSB15_7-8 are qualified as "J" or "UJ" based on potential indeterminate bias.

L1812618:

The LCSD for batch WG1106239 exhibited a percent recovery greater than the upper control limit for acetone (144%). The associated positive detections in samples RSB01_1-2, RSB02_0-1, RSB02_6-7, RSB09_1-2, RSB09_7-8 and RSB02_041118 are qualified as "J" based on potential high bias.

The LCS/LCSD for batch WG1106835 exhibited percent recoveries greater than the upper control limit for acetone (151%/175%). The associated positive detection in sample RSB01_10-11 is qualified as "J" based on potential high bias.

The method blank for batch WG1106286 displayed positive detections for chloromethane (31 µg/kg) and bromomethane (68 µg/kg). The associated positive detections in sample RSB01_6-7 are qualified as "U" based on potential high bias.

The ICAL analyzed for instrument VOA110 exhibited a low average response factor (RF) for 1,4-dioxane (0.002). The associated results in samples RSB01_1-2, RSB01_6-7, RSB01_10-11, RSB02_0-1, RSB02_6-7, RSB03_0-1, RSB03_7-8, RSB09_1-2, RSB09_7-8 and RSB02_041118 are qualified as "UJ" based on potential indeterminate bias.

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SVOCs by SW-846 Method 8270D:

L1812210:

The CCV analyzed on 4/11/2018 at 20:38 exhibited %Ds greater than the control limit for 2-nitrophenol (28.4%) and 2,4-dinitrotoluene (23.5%). The associated results in samples RSB04_6-7, RSB04_1-2, RSB04_10-11, RSB10_1-2, RSB10_9-10, RSB11_8-9 and RSB11_1-2 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/11/2018 at 21:39 exhibited a %D greater than the control limit for isophorone (21.8%). The associated results in samples RSB12_1-2, RSB12_7-8, RSB12_5-6 and RSB01_040918 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/12/2018 at 15:49 exhibited a %D greater than the control limit for isophorone (20.4%). The associated result in sample RSB11_5-6 is qualified as "UJ" based on potential indeterminate bias.

L1812435:

The LCS/LCSD for batch WG1105737 exhibited an RPD greater than the upper control limit for benzoic acid (53%). The associated result in sample RSBFB01_041018 is qualified as "UJ" based on potential indeterminate bias.

The LCS/LCSD for batch WG1105805 exhibited an RPD greater than the control limit for 4-chloroaniline (54%). The associated result in sample RSB05_6-7 is qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/12/2018 at 12:01 exhibited %Ds greater than the control limit for 2-nitrophenol (25.8%), 2,4-dinitrotoluene (26.5%) and 4,6-dinitro-2-methylphenol (33.4%). The associated results in samples RSB06_7-8, RSB08_14-15, RSB13_7-8, RSB15_0-1 and RSB15_7-8 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/12/2018 at 21:40 exhibited a %D greater than the control limit for bis(2-chloroisopropyl)ether (-23.9%). The associated results in samples RSB07_7-8, RSB08_1-2, RSB08_7-8 and RSB13_1-2 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/13/2018 at 8:00 exhibited %Ds greater than the control limit for 2-nitrophenol (28.7%) and 2,4-dinitrotoluene (21.6%). The associated results in samples

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RSB05_0-1, RSB06_1-2, RSB07_1-2, RSB14_1-2, RSB14_10-11, RSB14_7-8, RSB15_11-12 and RSBFB01_041018 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/13/208 at 12:17 exhibited a %D greater than the control limit for bis(2-chloroisopropyl)ether (-22.7%). The associated result in sample RSB05_6-7 is qualified as "UJ" based on potential indeterminate bias.

L1812618:

The CCV analyzed on 4/17/208 at 11:01 exhibited a %D greater than the control limit for bis(2-chloroisopropyl)ether (-27.9%). The associated result in sample RSB03_0-1 is qualified as "UJ" based on potential indeterminate bias.

PCBs by SW-846 Method 8082A:

L1812210:

The CCV analyzed on 2/2/2018 at 5:04 p.m. exhibited a %D greater than the control limit for Aroclor-1268 (21.1%). The associated results in samples RSB04_1-2, RSB04_10-11, RSB10_1-2, RSB10_9-10, RSB11_5-6, RSB11_1-2, RSB12_1-2, RSB12_7-8 and RSDUP01_040918 are qualified as "UJ" based on potential indeterminate bias.

L1812435:

The CCV analyzed on 4/17/2018 at 10:04 exhibited a %D greater than the control limit for Aroclor-1016 (22.2%). The associated results in samples RSB05_6-7, RSB13_7-8, RSB14_1-2, RSB14_10-11, RSB14_7-8 and RSBFB01_041018 are qualified as "UJ" based on potential indeterminate bias.

Pesticides by SW-846 Method 8081A:

L1812618:

The LCS/LCSD for batch WG1106186 exhibited an RPD greater than the control limit for endrin aldehyde (33%) and endosulfan sulfate (36%). The associated results in samples RSB01_1-2, RSB01_6-7, RSB01_10-11, RSB02_0-1, RSB02_6-7, RSB03_0-1, RSB03_7-8, RSB09_1-2, RSB09_7-8 and RSDUP02_041118 are qualified as "UJ" based on potential indeterminate bias.

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The CCV analyzed on 4/14/2018 at 10:40 exhibited a %D greater than the control limit for endrin ketone (27.9%). The associated results in samples RSB01_1-2, RSB01_6-7, RSB02_0-1, RSB03_0-1, RSB09_1-2 and RSDUP02_041118 are qualified as "UJ" based on potential indeterminate bias.

Metals by SW-846 Method 6020A:

L1812210:

The MS/MSD for batch WG1105284 exhibited percent recoveries below the lower control limit for calcium (30%/32%). The associated results in samples RSB04_6-7, RSB04_1-2, RSB04_10-11, RSB10_1-2, RSB10_9-10, RSB11_8-9, RSB11_5-6, RSB11_1-2, RSB12_1-2 and RSB12_7-8 are qualified as "J" based on potential low bias.

The MS for batch WG1105284 exhibited a percent recovery below the lower control limit for magnesium (72%). The associated results in samples RSB04_6-7, RSB04_1-2, RSB04_10-11, RSB10_1-2, RSB10_9-10, RSB11_8-9, RSB11_5-6, RSB11_1-2, RSB12_1-2 and RSB12_7-8 are qualified as "J" based on potential low bias.

The laboratory duplicate for batch WG1105285 exhibited an RPD greater than the upper control limit (i.e. 35%) for total cobalt (38%). The associated results in samples RSB12_5-6 and RSDUP01_040918 are qualified as "J" based on potential indeterminate bias.

The field duplicate RSDUP01_040918 and parent sample RSB10_1-2 exhibited RPDs greater than the upper control limit (i.e. 50%) for total barium (153%), calcium (77.8%), lead (194%) and zinc (77.6%). The results in the parent and duplicate samples are qualified as "J" based on potential indeterminate bias.

L1812435:

The laboratory duplicate for batch WG1105674 exhibited RPDs greater than the control limit for calcium (58%), manganese (65%) and nickel (55%). The associated results in samples RSB05_0-1, RSB05_6-7, RSB06_1-2, RSB06_7-8, RSB07_1-2, RSB07_7-8, RSB08_1-2, RSB08_7-8, RSB08_14-15, RSB13_1-2, RSB13_7-8, RSB14_1-2, RSB14_10-11, RSB14_7-8, RSB15_0-1, RSB15_11-12 and RSB15_7-8 are qualified as "J" based on potential indeterminate bias.

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L1812618:

The method blank for batch WG1106333 displayed a positive detection for total sodium (0.190 mg/L). The associated positive detection in sample RSFB02_041118 is qualified as "U" based on potential high bias.

The MS/MSD for batch WG1106034 exhibited percent recoveries greater than the upper control limit for total magnesium (143%/142%). The associated positive detections in samples RSB01_1-2, RSB01_6-7, RSB01_10-11, RSB02_0-1, RSB02_6-7, RSB03_0-1, RSB03_7-8, RSB09_1-2, RSB09_7-8 and RSDUP02_041118 are qualified as "J" based on potential high bias.

The MSD for batch WG1106034 exhibited a percent recovery below the lower control limit for total manganese (69%). The associated results in samples RSB01_1-2, RSB01_6-7, RSB01_10-11, RSB02_0-1, RSB02_6-7, RSB03_0-1, RSB03_7-8, RSB09_1-2, RSB09_7-8 and RSDUP02_041118 are qualified as "J" based on potential low bias.

Mercury by SW-846 Method 7471B:

L1812210:

The MS/MSD for batch WG1105394 exhibited percent recoveries greater than the upper control limit for total mercury (123%/124%). The associated results in samples RSB04_1-2, RSB10_1-2, RSB12_5-6 and RSDUP01_040918 are qualified as "J" based on potential high bias.

L1812618:

The MS/MSD for batch WG1105757 exhibited percent recoveries greater than the upper control limit for total mercury (129%/126%). The associated results in samples RSB01_1-2, RSB01_10-11, RSB02_0-1, RSB03_0-1, RSB09_1-2, RSB09_7-8 and RSDUP02_041118 are qualified as "J" based on potential high bias.

Cyanide by SW-846 Method 9012B:

L1812210:

The LCSD for batch WG1105167 exhibited a percent recovery below the lower control limit for total cyanide (62%). The associated results in samples RSB04_6-7, RSB04_1-2, RSB04_10-11,

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RSB10_1-2, RSB10_9-10, RSB11_8-9, RSB11_5-6, RSB11_1-2, RSB12_1-2, RSB12_7-8, RSB12_5-6 and RSBBDUP01_040918 are qualified as "UJ" based on potential low bias.

The LCSD for batch WG1105168 exhibited a percent recovery below the lower control limit for total cyanide (63%). The associated results in samples RSB04_6-7, RSB04_1-2, RSB04_10-11, RSB10_1-2, RSB10_9-10, RSB11_8-9, RSB11_5-6, RSB11_1-2, RSB12_1-2, RSB12_7-8, RSB12_5-6 and RSBBDUP01_040918 are qualified as "UJ" based on potential low bias.

L1812435:

The LCSDs for batches WG1105534, WG1105573 and WG1105574 exhibited percent recoveries below the lower control limit for cyanide (37%, 77% and 77%, respectively). The associated results in samples RSB05_0-1, RSB05_6-7, RSB06_1-2, RSB06_7-8, RSB07_1-2, RSB07_7-8, RSB08_1-2, RSB08_7-8, RSB08_14-15, RSB13_1-2, RSB13_7-8, RSB14_1-2, RSB14_10-11, RSB14_7-8, RSB15_0-1 and RSB15_11-12 are qualified as "J" or "UJ" based on potential low bias.

L1812618:

The LCSD for batch WG1105765 exhibited a percent recovery below the lower control limit for total cyanide (66%). The associated results in samples RSB01_1-2, RSB01_6-7, RSB01_10-11, RSB02_0-1, RSB02_6-7, RSB03_0-1, RSB03_7-8, RSB09_1-2, RSB09_7-8 and RSBBDUP02_041118 are qualified as "UJ" based on potential low bias.

Hexavalent Chromium by SW-846 Method 7196A:

L1812210:

The MS/MSD for batch WG1105036 exhibited an RPD greater than the upper control limit (i.e. 20%) for hexavalent chromium (37%). The associated results in samples RSB04_6-7, RSB04_1-2, RSB04_10-11, RSB10_1-2, RSB10_9-10, RSB11_8-9, RSB11_5-6, RSB11_1-2, RSB12_1-2, RSB12_7-8, RSB12_5-6 and RSBBDUP01_040918 are qualified as "J" or "UJ" based on potential indeterminate bias.

L1812618:

The LCS for batch WG1105761 exhibited a percent recovery greater than the upper control limit for hexavalent chromium (134%). The associated positive detections in samples RSB02_0-1, RSB03_0-1 and RSBBDUP02_041118 are qualified as "J" based on potential high bias.

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OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The other deficiencies are identified below.

VOCs by SW-846 Method 8260C:

L1812210:

The matrix spike/matrix spike duplicate (MS/MSD) for parent sample RSB10_9-10 exhibited percent recoveries greater than the upper control limit for 1,1,2-trichloroethane, acetone and 2-butanone. Qualification is not necessary for MS/MSD non-conformances associated with organic compounds.

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) for batch WG1105799 exhibited percent recoveries greater than the upper control limit for chloromethane (180%/158%), vinyl chloride (148%/142%), acetone (206%/186%) and 2-butanone (148%/143%). The associated results are non-detects; no qualification is necessary.

The LCS/LCSD for batch WG1105800 exhibited percent recoveries greater than the upper control limit for chloromethane (180%/158%), vinyl chloride (148%/142%) and 2-butanone (148%/143%). The associated results are non-detects; no qualification is necessary.

The LCS/LCSD for batch WG1105944 exhibited percent recoveries greater than the upper control limit for 2-butanone (156%/163%) and 2-hexanone (134%/142%). The associated results are non-detects; no qualification is necessary.

The LCS for batch WG1106004 exhibited a percent recovery greater than the upper control limit for acetone (165%). The associated result is non-detect; no qualification is necessary.

The LCS/LCSD for batch WG1106019 exhibited percent recoveries greater than the upper control limit for styrene (135%/140%). The associated results is non-detect; no qualification is necessary.

The LCS for batch WG1106019 exhibited a percent recovery greater than the upper control limit for chloromethane (140%). The associated result is non-detect; no qualification is necessary.

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The LCS/LCSD for batch WG1106150 exhibited percent recoveries greater than the upper control limit for bromomethane (149%/148%). The associated result is non-detect; no qualification is necessary.

The LCS/LCSD for batch WG1107199 exhibited percent recoveries greater than the upper control limit for 1,1,2-trichloroethane (131%/133%), acetone (216%/193%) and 2-butanone (165%/150%). The associated results are non-detects; no qualification is necessary.

The method blank for batch WG1105800 displayed a positive detection for bromomethane at a concentration at a concentration of 3.5 µg/kg. The associated results are non-detects; no qualification is necessary.

The method blank for batch WG1106150 displayed a positive detection for bromomethane at a concentration of 2.7 µg/kg. The associated results is non-detect; no qualification is necessary.

The method blank for batch WG1107199 displayed a positive detection for batch WG1107199 displayed a positive detection for bromomethane (34 µg/kg). The associated result is non-detect; no qualification is necessary.

L1812435:

The LCS for batch WG1106019 exhibited a percent recovery greater than the upper control limit for chloromethane (140%). The associated results are non-detects; no qualification is necessary.

The LCS/LCSD for batch WG1106019 exhibited percent recoveries greater than the upper control limit for styrene (135%/140%). The associated results are non-detects; no qualification is necessary.

The LCS/LCSD for batch WG1106150 exhibited percent recoveries greater than the upper control limits for bromomethane (149%/148%). The associated results are non-detects; no qualification is necessary.

The method blank for batch WG1106150 displayed a positive detection for bromomethane at a concentration of 2.7 µg/kg. The associated results are non-detects; no qualification is necessary.

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L1812618:

The MS/MSD for parent sample RSB01_6-7 exhibited percent recoveries greater than the upper control limit for 1,2-dichloropropane (142%/138%), 1,1,2-trichloroethane (136%/133%), chloromethane (159%/151%), vinyl chloride (141%/149%), acetone (168%/163%), 2-butanone (192%/182%) and acrylonitrile (167%/153%). The MS for the same parent sample exhibited percent recoveries greater than the upper control limit for carbon tetrachloride, cis-1,3-dichloropropene and bromochloromethane (133%). No qualification is necessary for organics on the basis of MS/MSD recoveries.

The LCS/LSCD for batch WG1106239 exhibited percent recoveries greater than the upper control limit for chloromethane (149%/146%) and bromochloromethane (132%/131%). The associated results are non-detects; no qualification is necessary.

The LCS/LCSD for batch WG1106286 exhibited percent recoveries greater than the upper control limit for bromochloromethane (132%/131%). The associated results are non-detects; no qualification is necessary.

The LCSD for batch WG1106286 exhibited a percent recovery greater than the upper control limit for acetone (144%). The associated results are non-detects; no qualification is necessary.

The LCS/LCSD for batch WG1106835 exhibited percent recoveries greater than the upper control limit for chloromethane (133%/134%). The associated result is non-detect; no qualification is necessary.

The LCS for batch WG1106835 exhibited a percent recovery greater than the upper control limit for bromochloromethane (131%). The associated result is non-detect; no qualification is necessary.

The method blank for batch WG1106239 displayed positive detections for bromomethane (1.4 µg/kg) and chloromethane (0.61 µg/kg). The associated results are non-detects; no qualification is necessary.

The LCS/LCSD for batch WG1106286 exhibited percent recoveries greater than the upper control limit for chloromethane (149%/146%). The associated result was qualified based on method blank contamination; no further action is necessary.

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The method blank for batch WG1106286 displayed positive detections for chloromethane (31 µg/kg) and bromomethane (68 µg/kg). The associated results are greater than three times the blank contamination or are non-detects; no qualification is necessary.

The method blank for batch WG1106385 displayed a positive detection for bromomethane (0.60 µg/kg). The associated result is non-detect; no qualification is necessary.

SVOCs by SW-846 Method 8270D:

L1812210:

The surrogate nitrobenzene-d5 exhibited a percent recovery below the lower control limit for the analysis of RSB11_5-6 (21%). The other two base-neutral surrogates exhibited percent recoveries within their respective control limits; no qualification is necessary.

The MS/MSD for parent sample RSB10_9-10 exhibited percent recoveries below the lower control limit for benzoic acid (0%/0%). Qualification is not necessary for MS/MSD non-conformances associated with organic compounds.

L1812435:

The CCV analyzed on 4/11/2008 at 20:38 exhibited %Ds greater than the control limit for 2-nitrophenol (28.4%) and 2,4-dinitrotoluene (23.5%). The investigative samples are not associated with this calibration; no qualification is necessary.

The CCV analyzed on 4/12/2018 at 15:49 exhibited a %D greater than the control limit for isophorone (20.4%). The investigative samples are not associated with this calibration; no qualification is necessary.

The CCV analyzed on 4/16/2018 at 18:18 exhibited a %D greater than the control limit for bis(2-chloroisopropyl)ether (-24.9%). The investigative samples are not associated with this calibration; no qualification is necessary.

The LCS for batch WG1105730 exhibited a percent recovery greater than the upper control limit for p-chloro-m-cresol (104%). The associated results are non-detects; no qualification is necessary.

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The LCS/LCSD for batch WG1105737 exhibited percent recoveries greater than the upper control limit for p-chloro-m-cresol (103%/100%). The associated result is a non-detect; no qualification is necessary.

L1812618:

The MS for batch WG1106220 exhibited a percent recovery below the lower control limit for 4-chloroaniline (38%). The MS/MSD for the same parent sample exhibited percent recoveries below the lower control limit for 2,4-dinitrophenol (0%/0%) and benzoic acid (0%/0%). No qualification is necessary for SVOCs based on MS/MSD non-conformances.

The CCV analyzed on 4/17/2018 at 9:05 exhibited a %D greater than the control limit for 4,6-dinitro-2-methylphenol (50.4%). This compound was reported from the scan mode; no qualification is necessary.

Pesticides by SW-846 Method 8081A:

L1812210:

The surrogates tetrachloro-m-xylene (TCMX) and decachlorobiphenyl (DCB) exhibited percent recoveries greater than the upper control limit (i.e. 150%) on the primary column for sample RSB11_8-9 (645% and 161%, respectively). The associated results are non-detect; no qualification is necessary.

L1812618:

The MS/MSD for parent sample RSB01_6-7 exhibited an RPD greater than the upper control limit for delta-BHC (58%). MS/MSD non-conformances are not used for qualification of organics.

The surrogate decachlorobiphenyl exhibited a percent recovery greater than the upper control limit (i.e. 150%) in sample RSB01_10-11 (160%). The associated results are non-detects; no qualification is necessary.

Metals by SW-846 Method 6020A:

L1812210:

The MS for batch WG1105285 exhibited percent recoveries outside the control limits for several metals. The parent sample did not originate from the site; no qualification is necessary.

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The MS/MSD for batch WG1105284 exhibited percent recoveries below the lower control limit for iron (0%/0%). The original sample result was greater than four times the spiked amount; no qualification is necessary.

The method blank for batch WG1105284 displayed a positive detection for total lead at a concentration of 0.424 mg/kg. The associated results are greater than three times the blank contamination; no qualification is necessary.

L1812435:

The MS for batch WG1105674 exhibited percent recoveries outside the control limits for aluminum, calcium, iron, magnesium and manganese. The original sample results were greater than four times the spiked amounts; no qualification is necessary.

The field blank collected on 4/10/2018 displayed positive detections for antimony (0.014 mg/L), calcium (0.038 mg/L), iron (0.011 mg/L) and sodium (0.294 mg/L). The associated results are greater than ten time the blank contamination; no qualification is necessary.

The method blank for batch WG1105674 displayed a positive detection for total iron at a concentration of 0.364 mg/kg. The associated results are greater than ten time the blank contamination; no qualification is necessary.

L1812618:

The MS/MSD for batch WG1106034 exhibited percent recoveries greater than the control limit for aluminum and iron. The original sample results were greater than four times the spiked amount; no qualification is necessary.

The MS/MSD for batch WG1106333 exhibited percent recoveries outside the control limits for several metals. The parent sample did not originate from the site; no qualification is necessary.

The method blank for batch WG1106034 displayed a positive detection for total iron at a concentration of 0.472 mg/kg. The associated results are greater than ten times the blank contamination; no qualification is necessary.

The field blank collected on 4/11/2018 displayed positive detections for total calcium (0.082 mg/L) and total sodium (0.336 mg/L) The associated results are greater than ten times the blank contamination; no qualification is necessary.

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The method blank for batch WG1106333 displayed a positive detection for total iron (0.009 mg/L). The associated result is non-detect; no qualification is necessary.

Mercury by SW-846 Method 7471B:

L1812435:

The MS for batch WG1105758 exhibited a percent recovery greater than the upper control limit for mercury. The parent sample did not originate from the site; no qualification is necessary.

COMMENTS:

The followings field duplicate and parent sample pairs were evaluated for precision:


- RSB10_1-2 & RSDUP01_040918
- RSB01_1-2 & RSDUP02_041118

For results greater than two times the reporting limit, the relative percent difference (RPD) must be less than fifty percent to meet the precision criteria. For results less than two times the reporting limit, the absolute difference between the results must be less than the reporting limit. All, if any, non-conformances associated with this evaluation are described in detail in the minor non-conformances section.

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All laboratory data packages met ASP Category B requirements and all sample holding times were met.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Emily Strake, CEP
Senior Project Chemist/Risk Assessor

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Mailing Address: P.O. Box 1569 Doylestown, PA 18901

To: Andrea Scher, Langan Senior Staff Scientist

From: Emily Strake, Langan Senior Project Chemist/Risk Assessor

Date: May 16, 2018

Re: Data Usability Summary Report
For 4650 Broadway
Manhattan, New York
Soil Vapor Samples Collected April 2018
Langan Project No.: 170505502

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of soil vapor and ambient air samples collected on April 9 through April 11, 2018 by Langan Engineering and Environmental Services (“Langan”) at 4650 Broadway located in Manhattan, New York. The samples were analyzed by Alpha Analytical located in Mansfield, MA (NYSDOH ELAP registration #11627) for volatile organic compounds (VOCs) using USEPA Method TO-15 (Determination of VOCs in Air Collected In Specially-Prepared Canister And Analyzed by Gas Chromatography/Mass Spectrometry) and TO-15 selective ion monitoring (SIM).

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

TABLE 1: SAMPLE SUMMARY

SDG	Lab Sample ID	Client Sample ID	Sample Date	Analytical Parameters
L1812215	L1812215-01	RSV05_040918	4/9/2018	VOCs
L1812215	L1812215-02	AA01_040918	4/9/2018	VOCs
L1812215	L1812215-03	RSV01_040918	4/9/2018	VOCs
L1812404	L1812404-01	RSV03_041018	4/10/2018	VOCs
L1812404	L1812404-02	RSV02_041018	4/10/2018	VOCs
L1812404	L1812404-03	UNUSED CAN #115	NA	Not Analyzed
L1812657	L1812657-01	RSV07_041118	4/11/2018	VOCs
L1812657	L1812657-02	RSV08_041118	4/11/2018	VOCs
L1812657	L1812657-03	RSV04_041118	4/11/2018	VOCs
L1812657	L1812657-04	RSV06_041118	4/11/2018	VOCs

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VALIDATION OVERVIEW

This data validation was performed in accordance with USEPA Region II SOP #HW-31, "Analysis of VOCs in Air Contained in Canister by Method TO-15" (September 2016, Revision 6), the USEPA Contract Laboratory Program, "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA-540-R-2017-001, January 2017) and the specifics of the methods employed.

Validation includes evaluation of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include sample preservation, holding times, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, laboratory duplicates, internal standard area counts, target compound identification and quantification, chromatograms, clean canister certifications and overall system performance.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U** – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- NJ** – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items subject to review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

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TABLE 2: VALIDATOR-APPLIED QUALIFICATION

<i>Project Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS No.</i>	<i>Validator Qualifier</i>
L1812215				
RSV05_040918	TO15	1,2,4-Trichlorobenzene	120-82-1	UJ
RSV05_040918	TO15	Bromoform	75-25-2	UJ
RSV05_040918	TO15	Dichlorodifluoromethane	75-71-8	UJ
RSV05_040918	TO15	Hexachlorobutadiene	87-68-3	UJ
RSV05_040918	TO15	Isopropanol	67-63-0	UJ
AA01_040918	TO15	1,2,4-Trichlorobenzene	120-82-1	UJ
AA01_040918	TO15	Bromoform	75-25-2	UJ
AA01_040918	TO15	Dichlorodifluoromethane	75-71-8	J
AA01_040918	TO15	Hexachlorobutadiene	87-68-3	UJ
AA01_040918	TO15	Isopropanol	67-63-0	UJ
RSV01_040918	TO15	1,2,4-Trichlorobenzene	120-82-1	UJ
RSV01_040918	TO15	Bromoform	75-25-2	UJ
RSV01_040918	TO15	Dichlorodifluoromethane	75-71-8	J
RSV01_040918	TO15	Hexachlorobutadiene	87-68-3	UJ
RSV01_040918	TO15	Isopropanol	67-63-0	J
L1812404				
RSV03_041018	TO15	1,2,4-Trichlorobenzene	120-82-1	UJ
RSV03_041018	TO15	Dichlorodifluoromethane	75-71-8	UJ
RSV03_041018	TO15	Hexachlorobutadiene	87-68-3	UJ
RSV03_041018	TO15	Isopropanol	67-63-0	UJ
RSV02_041018	TO15	1,2,4-Trichlorobenzene	120-82-1	UJ
RSV02_041018	TO15	Dichlorodifluoromethane	75-71-8	UJ
RSV02_041018	TO15	Hexachlorobutadiene	87-68-3	UJ
RSV02_041018	TO15	Isopropanol	67-63-0	UJ
L1812657				
RSV07_041118	TO15	1,2,4-Trichlorobenzene	120-82-1	UJ
RSV07_041118	TO15	Dichlorodifluoromethane	75-71-8	J
RSV07_041118	TO15	Hexachlorobutadiene	87-68-3	UJ
RSV07_041118	TO15	Isopropanol	67-63-0	J
RSV08_041118	TO15	1,2,4-Trichlorobenzene	120-82-1	UJ

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
RSV08_041118	TO15	Dichlorodifluoromethane	75-71-8	UJ
RSV08_041118	TO15	Hexachlorobutadiene	87-68-3	UJ
RSV08_041118	TO15	Isopropanol	67-63-0	UJ
RSV04_041118	TO15	1,2,4-Trichlorobenzene	120-82-1	UJ
RSV04_041118	TO15	Dichlorodifluoromethane	75-71-8	UJ
RSV04_041118	TO15	Hexachlorobutadiene	87-68-3	UJ
RSV04_041118	TO15	Isopropanol	67-63-0	UJ
RSV06_041118	TO15	1,2,4-Trichlorobenzene	120-82-1	UJ
RSV06_041118	TO15	Dichlorodifluoromethane	75-71-8	UJ
RSV06_041118	TO15	Hexachlorobutadiene	87-68-3	UJ
RSV06_041118	TO15	Isopropanol	67-63-0	UJ

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The minor deficiencies are identified below.

VOCs by USEPA Method TO-15:

L1812215:

The initial calibration (ICAL) analyzed for instrument AIRPIANO1 exhibited a relative standard deviation (RSD) greater than the upper control limit (i.e. 30%) for isopropyl alcohol (37.29%). The associated results in samples RSV05_040918, AA01_040918 and RSV01_040918 are qualified as "J" or "UJ" based on potential indeterminate bias.

The initial calibration verification (ICV) analyzed on 2/27/2018 at 9:09 a.m. exhibited a percent difference (%D) greater than the control limit for dichlorodifluoromethane (-30.1%). The associated results in samples RSV05_040918, AA01_040918 and RSV01_040918 are qualified as "J" or "UJ" based on potential indeterminate bias.

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The continuing calibration verification (CCV) analyzed on 4/13/2018 at 13:13 exhibited %Ds greater than the control limit for bromoform (33.9%), 1,2,4-trichlorobenzene (49.3%) and hexachlorobutadiene (53.6%). The associated results in samples RSV05_040918, AA01_040918 and RSV01_040918 are qualified as "UJ" based on potential indeterminate bias.

L1812404:

The ICAL analyzed for instrument AIRPIANO1 exhibited an RSD greater than the upper control limit for isopropyl alcohol (37.29%). The associated results in samples RSV03_041018 and RSV02_041018 are qualified as "UJ" based on potential indeterminate bias.

The ICV analyzed on 2/27/2018 at 9:09 a.m. exhibited a %D greater than the control limit for dichlorodifluoromethane (-30.1%). The associated results in samples RSV03_041018 and RSV02_041018 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/16/2018 at 13:39 exhibited %Ds greater than the control limit for 1,2,4-trichlorobenzene (44.9%) and hexachlorobutadiene (46.3%). The associated results in samples RSV03_041018 and RSV02_041018 are qualified as "UJ" based on potential indeterminate bias.

L1812657:

The ICAL analyzed for instrument AIRPIANO1 exhibited an RSD greater than the upper control limit for isopropyl alcohol (37.29%). The associated results in samples RSV07_041118, RSV08_041118, RSV04_041118 and RSV06_041118 are qualified as "J" or "UJ" based on potential indeterminate bias.

The ICV analyzed on 2/27/2018 at 9:09 a.m. exhibited a %D greater than the control limit for dichlorodifluoromethane (-30.1%). The associated results in samples RSV07_041118, RSV08_041118, RSV04_041118 and RSV06_041118 are qualified as "J" or "UJ" based on potential indeterminate bias.

The CCV analyzed on 4/16/2018 at 13:39 exhibited %Ds greater than the control limit for 1,2,4-trichlorobenzene (44.9%) and hexachlorobutadiene (46.3%). The associated results in samples RSV07_041118, RSV08_041118, RSV04_041118 and RSV06_041118 are qualified as "J" or "UJ" based on potential indeterminate bias.

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OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The other deficiencies are identified below.

VOCs by USEPA Method TO-15:

L1812215:

The laboratory control sample (LCS) for batch WG1106353 exhibited percent recoveries greater than the upper control limit (i.e. 130%) for bromoform (134%), 1,2,4-trichlorobenzene (149%) and hexachlorobutadiene (154%). The associated results are non-detects; no qualification is necessary.

L1812404:

The LCS for batch WG1106940 exhibited percent recoveries greater than the upper control limit for 1,2,4-trichlorobenzene (145%) and hexachlorobutadiene (146%). The associated results are non-detects; no qualification is necessary.

The LCS for batch WG1107528 exhibited percent recoveries greater than the upper control limit for SIM analytes 1,2,4-trichlorobenzene (151%) and hexachlorobutadiene (152%). The results for these compounds were reported from the full scan mode; no qualification is necessary.

The ICAL analyzed for instrument AIRPIANO1 exhibited an RSD greater than the upper control limit for isopropyl alcohol (32.01%). The results for this compound were reported from the full scan mode; no qualification is necessary.

The ICV analyzed on 2/27/2018 at 9:40 a.m. exhibited a %D greater than the control limit for 1,2,4-trichlorobenzene (30.1%). The results for this compound were reported from the full scan mode; no qualification is necessary.

The CCV analyzed on 4/16/2018 at 14:11 exhibited %Ds greater than the control limit for bromoform (30.2%), 1,2,4-trichlorobenzene (51.3%) and hexachlorobutadiene (52.4%). The results for this compound were reported from the full scan mode; no qualification is necessary.

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L1812657:

The LCS for batch WG1106940 exhibited percent recoveries greater than the upper control limit for 1,2,4-trichlorobenzene (145%) and hexachlorobutadiene (146%). The associated results are non-detects; no qualification is necessary.

The LCS for batch WG1107528 exhibited percent recoveries greater than the upper control limit for 1,2,4-trichlorobenzene (151%) and hexachlorobutadiene (152%). These compounds were reported from the full scan mode analysis; no qualification is necessary.

The ICAL analyzed for instrument AIRPIANO1 exhibited an RSD greater than the upper control limit for isopropyl alcohol (32.01%). These compounds were reported from the full scan mode analysis; no qualification is necessary.

The ICV analyzed on 2/27/2018 at 9:40 a.m. exhibited a %D greater than the control limit for 1,2,4-trichlorobenzene (30.1%). This compound was reported from the full scan mode analysis; no qualification is necessary.

The CCV analyzed on 4/16/2018 at 14:11 exhibited %Ds greater than the control limit for bromoform (30.2%), 1,2,4-trichlorobenzene (51.3%) and hexachlorobutadiene (52.4%). These compounds were reported from the scan mode analysis; no qualification is necessary.

COMMENTS:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All laboratory data packages met ASP Category B requirements and all sample holding times were met.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

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Signed:



Emily Strake, CEP
Senior Project Chemist/Risk Assessor

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To: Andrea Scher, Langan Senior Staff Scientist

From: Emily Strake, Langan Senior Project Chemist/Risk Assessor

Date: May 14, 2018

Re: Data Usability Summary Report
For 4650 Broadway
Manhattan, New York
Groundwater Samples Collected March 2018
Langan Project No.: 170505501

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of groundwater samples collected on March 12, 2018 by Langan Engineering and Environmental Services (“Langan”) at 4650 Broadway located in Manhattan, New York. The samples were analyzed by Alpha Analytical located in Westborough, MA (NYSDOH ELAP registration #11148) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), dissolved metals, and dissolved mercury (Hg) using the analytical method specified below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D and 8270D with Selective Ion Monitoring (SIM)
- PCBs by SW-846 8082A
- Metals by SW-846 6020A
- Mercury by SW-846 7470A

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

TABLE 1: SAMPLE SUMMARY

SDG	Lab Sample ID	Client Sample ID	Sample Date	Analytical Parameters
L1808456	L1808456-01	MW01_031218	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg
L1808456	L1808456-02	MW02_031218	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg
L1808456	L1808456-03	MW03_031218	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg
L1808456	L1808456-04	MW04_031218	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg

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<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
L1808456	L1808456-05	TB01_031218	3/12/2018	VOCs

VALIDATION OVERVIEW

This data validation was performed in accordance with USEPA Region II Standard Operating Procedure (SOP) #HW-34a, "Trace Volatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-33A, "Low/Medium Volatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-35A, "Semivolatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-37A, "PCB Aroclor Data Validation" (June 2015, Revision 0), USEPA Region II SOP #HW-3b, "ICP-MS Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-3c, "Mercury and Cyanide Data Validation" (September 2016, Revision 1), "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA-540-R-2017-002, January 2017), the USEPA Contract Laboratory Program, "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA-540-R-2017-001, January 2017) and the specifics of the methods employed.

Validation includes evaluation of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include sample preservation, holding times, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, matrix spike/matrix spike duplicates, extraction/digestion logs, serial dilutions, interference checks, post-spike samples, initial and continuing calibration blanks, system monitoring compounds, internal standard area counts, target compound identification and quantification, chromatograms, and overall system performance.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.

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U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items subject to review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

TABLE 2: VALIDATOR-APPLIED QUALIFICATION

<i>Project Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS No.</i>	<i>Validator Qualifier</i>
MW01_031218	6020A	Dissolved Antimony	7440-36-0	U (0.00400)
MW01_031218	6020A	Dissolved Calcium	7440-70-2	J
MW01_031218	6020A	Dissolved Manganese	7439-96-5	J
MW01_031218	6020A	Dissolved Potassium	7440-09-7	J
MW01_031218	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
MW01_031218	SW8260C	Bromochloromethane	74-97-5	UJ
MW01_031218	SW8260C	Bromoform	75-25-2	UJ
MW01_031218	SW8260C	Bromomethane	74-83-9	UJ
MW01_031218	SW8260C	Chloroethane	75-00-3	UJ
MW01_031218	SW8260C	Dibromochloromethane	124-48-1	UJ
MW01_031218	SW8260C	Tetrachloroethylene (PCE)	127-18-4	UJ
MW02_031218	6020A	Dissolved Aluminum	7429-90-5	U (0.0421)
MW02_031218	6020A	Dissolved Antimony	7440-36-0	U (0.00400)
MW02_031218	6020A	Dissolved Calcium	7440-70-2	J
MW02_031218	6020A	Dissolved Manganese	7439-96-5	J
MW02_031218	6020A	Dissolved Potassium	7440-09-7	J
MW02_031218	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
MW02_031218	SW8260C	Bromochloromethane	74-97-5	UJ
MW02_031218	SW8260C	Bromoform	75-25-2	UJ
MW02_031218	SW8260C	Bromomethane	74-83-9	UJ

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
MW02_031218	SW8260C	Chloroethane	75-00-3	UJ
MW02_031218	SW8260C	Dibromochloromethane	124-48-1	UJ
MW02_031218	SW8260C	Tetrachloroethylene (PCE)	127-18-4	UJ
MW03_031218	6020A	Dissolved Aluminum	7429-90-5	U (0.0421)
MW03_031218	6020A	Dissolved Antimony	7440-36-0	U (0.00400)
MW03_031218	6020A	Dissolved Calcium	7440-70-2	J
MW03_031218	6020A	Dissolved Manganese	7439-96-5	J
MW03_031218	6020A	Dissolved Potassium	7440-09-7	J
MW03_031218	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
MW03_031218	SW8260C	Bromochloromethane	74-97-5	UJ
MW03_031218	SW8260C	Bromoform	75-25-2	UJ
MW03_031218	SW8260C	Bromomethane	74-83-9	UJ
MW03_031218	SW8260C	Chloroethane	75-00-3	UJ
MW03_031218	SW8260C	Dibromochloromethane	124-48-1	UJ
MW03_031218	SW8260C	Tetrachloroethylene (PCE)	127-18-4	UJ
MW04_031218	6020A	Dissolved Aluminum	7429-90-5	U (0.0421)
MW04_031218	6020A	Dissolved Antimony	7440-36-0	U (0.00400)
MW04_031218	6020A	Dissolved Calcium	7440-70-2	J
MW04_031218	6020A	Dissolved Manganese	7439-96-5	J
MW04_031218	6020A	Dissolved Potassium	7440-09-7	J
MW04_031218	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
MW04_031218	SW8260C	Bromochloromethane	74-97-5	UJ
MW04_031218	SW8260C	Bromoform	75-25-2	UJ
MW04_031218	SW8260C	Bromomethane	74-83-9	UJ
MW04_031218	SW8260C	Chloroethane	75-00-3	UJ
MW04_031218	SW8260C	Dibromochloromethane	124-48-1	UJ
MW04_031218	SW8260C	Tetrachloroethylene (PCE)	127-18-4	UJ
TB01_031218	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
TB01_031218	SW8260C	Bromochloromethane	74-97-5	UJ
TB01_031218	SW8260C	Bromoform	75-25-2	UJ
TB01_031218	SW8260C	Bromomethane	74-83-9	UJ
TB01_031218	SW8260C	Chloroethane	75-00-3	UJ

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
TB01_031218	SW8260C	Dibromochloromethane	124-48-1	UJ
TB01_031218	SW8260C	Tetrachloroethylene (PCE)	127-18-4	UJ

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The minor deficiencies are identified below.

VOCs by SW-846 Method 8260C:

The laboratory control sample duplicate (LCSD) for batch WG1097316 exhibited a percent recovery below the lower control limit (i.e. 70%) for tetrachloroethene (68%). The associated results in samples MW01_031218, MW02_031218, MW03_031218, MW04_031218 and TB01_031218 are qualified as "UJ" based on potential low bias.

The initial calibration (ICAL) analyzed for instrument VOA105 exhibited a low average response factor (RF) for 1,4-dioxane (0.001). The associated results in samples MW01_031218, MW02_031218, MW03_031218, MW04_031218 and TB01_031218 are qualified as "UJ" based on potential indeterminate bias.

The continuing calibration verification (CCV) analyzed on 3/14/2018 at 19:13 exhibited percent differences (%Ds) greater than the upper control limit for bromomethane (-42.6%), chloroethane (-32.6%), bromochloromethane (-26.8%), tetrachloroethene (-25.8%), chlorodibromomethane (-25.8%) and bromoform (-31.3%). The associated results in samples MW01_031218, MW02_031218, MW03_031218, MW04_031218 and TB01_031218 are qualified as "UJ" based on potential indeterminate bias.

Metals by SW-846 Method 6020A:

The method blank for batch WG1096988 displayed positive detections for dissolved aluminum (0.0421 mg/L) and dissolved antimony (0.00168 mg/L). The associated positive detections in samples MW01_031218, MW02_031218, MW03_031218 and MW04_031218 are qualified as "U" based on potential high bias.

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The matrix spike (MS) for batch WG1096988 exhibited a percent recovery below the lower control limit for dissolved potassium (68%). The associated results in samples MW01_031218, MW02_031218, MW03_031218 and MW04_031218 are qualified as "J" based on potential low bias.

The serial dilution analyzed for batch WG1096988 exhibited %Ds greater than the control limit for dissolved calcium (13%), dissolved manganese (11%) and dissolved potassium (14%). The associated results in samples MW01_031218, MW02_031218, MW03_031218 and MW04_031218 are qualified as "J" based on potential indeterminate bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The other deficiencies are identified below.

VOCs by SW-846 Method 8260C:

The trip blank displayed a positive detection for acetone at a concentration of 1.5 µg/L. The associated results are greater than ten times the blank contamination or are non-detections; no qualification is necessary.

SVOCs by SW-846 Method 8270D:

The surrogate nitrobenzene-d5 exhibited a percent recovery greater than the upper control limit (i.e. 120%) for MW01_031218 (126%). The other two base-neutral surrogates exhibited percent recoveries within the control limits; no qualification is necessary.

The LCSD for batch WG1096842 exhibited a percent recovery greater than the upper control limit for p-chloro-m-cresol (104%). The associated results are non-detections; no qualification is necessary.

Metals by SW-846 Method 6020A:

The MS for batch WG1096988 exhibited percent recoveries outside the control limits (i.e. 75-125%) for dissolved calcium and dissolved sodium. The original sample results are greater than four times the spiked amount; no qualification is necessary.

The method blank for batch WG1096988 displayed positive detections for dissolved calcium (0.0585 mg/L) and dissolved silver (0.00028 mg/L). The associated results are greater than ten times the blank contamination or are non-detections; no qualification is necessary.

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COMMENTS:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All laboratory data packages met ASP Category B requirements and all sample holding times were met.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Emily Strake, CEP
Senior Project Chemist/Risk Assessor

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Mailing Address: P.O. Box 1569 Doylestown, PA 18901

To: Andrea Scher, Langan Senior Staff Scientist

From: Emily Strake, Langan Senior Project Chemist/Risk Assessor

Date: May 15, 2018

Re: Data Usability Summary Report
For 4650 Broadway
Manhattan, New York
Soil Samples Collected March 2018
Langan Project No.: 170505501

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of soil samples collected on March 12, 2018 by Langan Engineering and Environmental Services (“Langan”) at 4650 Broadway located in Manhattan, New York. The samples were analyzed by Alpha Analytical located in Westborough, MA (NYSDOH ELAP registration #11148) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), total metals, total mercury (Hg) and general chemistry parameters using the analytical method specified below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D and 8270D with Selective Ion Monitoring (SIM)
- PCBs by SW-846 8082A
- Metals by SW-846 6010C
- Mercury by SW-846 7471B
- Total Solids (%S) by Standard Method 2540G

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

TABLE 1: SAMPLE SUMMARY

SDG	Lab Sample ID	Client Sample ID	Sample Date	Analytical Parameters
L1808457	L1808457-01	SB01_3-4	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg, %S
L1808457	L1808457-02	SB02_6-7	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg, %S
L1808457	L1808457-03	SB03_1-2	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg, %S

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<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
L1808457	L1808457-04	SB04_0.5-1.5	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg, %S
L1808457	L1808457-05	SB05_1-2	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg, %S
L1808457	L1808457-06	SB06_1-2	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg, %S
L1808457	L1808457-07	SB07_2-3	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg, %S
L1808457	L1808457-08	SB08_2-3	3/12/2018	VOCs, SVOCs, PCBs, Metals, Hg, %S

VALIDATION OVERVIEW

This data validation was performed in accordance with USEPA Region II SOP #HW-33A, "Low/Medium Volatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-35A, "Semivolatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-37A, "PCB Aroclor Data Validation" (June 2015, Revision 0), USEPA Region II SOP #HW-3a, "ICP-AES Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-3c, "Mercury and Cyanide Data Validation" (September 2016, Revision 1), "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA-540-R-2017-002, January 2017), the USEPA Contract Laboratory Program, "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA-540-R-2017-001, January 2017) and the specifics of the methods employed.

Validation includes evaluation of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include sample preservation, holding times, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, matrix spike/matrix spike duplicates, extraction/digestion logs, serial dilutions, interference checks, post-spike samples, initial and continuing calibration blanks, system monitoring compounds, internal standard area counts, target compound identification and quantification, chromatograms, and overall system performance.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

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J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.

U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items subject to review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

TABLE 2: VALIDATOR-APPLIED QUALIFICATION

Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
SB01_3-4	6010C	Total Iron	7439-89-6	J
SB01_3-4	SW7471B	Total Mercury	7439-97-6	J
SB01_3-4	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
SB01_3-4	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
SB01_3-4	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
SB01_3-4	SW8260C	Acetone	67-64-1	UJ
SB01_3-4	SW8260C	Chloromethane	74-87-3	UJ
SB01_3-4	SW8260C	Vinyl Chloride	75-01-4	UJ
SB02_6-7	6010C	Total Iron	7439-89-6	J
SB02_6-7	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
SB02_6-7	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
SB02_6-7	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
SB02_6-7	SW8260C	1,4-Dioxane (P-Dioxane)	123-91-1	UJ
SB02_6-7	SW8260C	Chloromethane	74-87-3	UJ
SB03_1-2	6010C	Total Iron	7439-89-6	J
SB03_1-2	SW7471B	Total Mercury	7439-97-6	J
SB03_1-2	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
SB03_1-2	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
SB03_1-2	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
SB03_1-2	SW8260C	Toluene	108-88-3	U (0.92)
SB04_0.5-1.5	6010C	Total Iron	7439-89-6	J
SB04_0.5-1.5	SW7471B	Total Mercury	7439-97-6	J
SB04_0.5-1.5	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
SB04_0.5-1.5	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
SB04_0.5-1.5	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
SB04_0.5-1.5	SW8260C	Toluene	108-88-3	U (1.0)
SB05_1-2	6010C	Total Iron	7439-89-6	J
SB05_1-2	SW7471B	Total Mercury	7439-97-6	J
SB05_1-2	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
SB05_1-2	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
SB05_1-2	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
SB05_1-2	SW8260C	Toluene	108-88-3	U (0.76)
SB06_1-2	6010C	Total Iron	7439-89-6	J
SB06_1-2	SW7471B	Total Mercury	7439-97-6	J
SB06_1-2	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
SB06_1-2	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
SB06_1-2	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
SB06_1-2	SW8260C	Toluene	108-88-3	U (0.75)
SB07_2-3	6010C	Total Iron	7439-89-6	J
SB07_2-3	SW7471B	Total Mercury	7439-97-6	J
SB07_2-3	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
SB07_2-3	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
SB07_2-3	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ
SB07_2-3	SW8260C	Toluene	108-88-3	U (0.83)
SB08_2-3	6010C	Total Iron	7439-89-6	J
SB08_2-3	SW7471B	Total Mercury	7439-97-6	J
SB08_2-3	SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	UJ
SB08_2-3	SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	UJ
SB08_2-3	SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	UJ

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Project Sample ID	Analysis	Analyte	CAS No.	Validator Qualifier
SB08_2-3	SW8260C	Toluene	108-88-3	U (0.86)

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The minor deficiencies are identified below.

VOCs by SW-846 Method 8260C:

The method blank for batch WG1097407 displayed a positive detection for toluene (0.37 µg/kg). The associated positive detections in samples SB03_1-2, SB04_0.5-1.5, SB05_1-2, SB06_1-2, SB07_2-3 and SB08_2-3 are qualified as "U" based on potential high bias.

The continuing calibration verification (CCV) analyzed on 3/14/2018 at 19:34 exhibited percent differences (%Ds) greater than the control limit for chloromethane (49.3%), vinyl chloride (25.1%) and acetone (54.1%). The associated results in sample SB01_3-4 are qualified as "UJ" based on potential indeterminate bias.

The CCV analyzed on 3/15/2018 at 7:11 exhibited a %D greater than the control limit for chloromethane (63%) and 1,4-dioxane (-24%). The associated results in sample SB02_6-7 are qualified as "UJ" based on potential indeterminate bias.

PCBs by SW-846 Method 8082A:

The CCV analyzed on 3/15/2018 at 1:34 exhibited a %D greater than the control limit for Aroclor-1016 (23.9%). The associated results in samples SB01_3-4, SB02_6-7, SB03_1-2, SB04_0.5-1.5, SB05_1-2, SB06_1-2, SB07_2-3 and SB08_2-3 are qualified as "UJ" based on potential indeterminate bias.

Metals by SW-846 Method 6020A:

The serial dilution analyzed for batch WG1097091 exhibited a %D greater than the control limit for total iron (16%). The associated results in samples SB01_3-4, SB02_6-7, SB03_1-2,

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SB04_0.5-1.5, SB05_1-2, SB06_1-2, SB07_2-3 and SB08_2-3 are qualified as "J" based on potential indeterminate bias.

Mercury by SW-846 Method 7471B:

The MS for batch WG1097202 exhibited a percent recovery greater than the upper control limit for total mercury (140%). The associated positive detections in samples SB01_3-4, SB03_1-2, SB04_0.5-1.5, SB05_1-2, SB06_1-2, SB07_2-3 and SB08_2-3 are qualified as "J" based on potential high bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The other deficiencies are identified below.

VOCs by SW-846 Method 8260C:

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) for batch WG1097251 exhibited percent recoveries greater than the upper control limit (i.e. 130%) for chloromethane (149%/151%). The associated result is non-detect; no qualification is necessary.

The LCS for batch WG1097251 exhibited a percent recovery greater than the upper control limit (i.e. 140%) for acetone (154%). The associated result is non-detect; no qualification is necessary.

The LCS/LCSD for batch WG1097369 exhibited percent recoveries greater than the upper control limit for chloromethane (163%/148%). The associated result is non-detect; no qualification is necessary.

The LCS/LCSD for batch WG1097407 exhibited percent recoveries greater than the upper control limit for chloromethane (163%/148%). The associated results are non-detects; no qualification is necessary.

The method blank for batch WG1097251 displayed a positive detection for bromomethane at a concentration of 1.3 µg/kg. The associated result is non-detect; no qualification is necessary.

The method blank for batch WG1097369 displayed positive detections for toluene (19 µg/kg) and bromomethane (70 µg/kg). The associated results are greater than ten times the blank contamination or are non-detect; no qualification is necessary.

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The method blank for batch WG1097407 displayed a positive detection for bromomethane (1.4 µg/kg). The associated positive detections are non-detects; no qualification is necessary.

Metals by SW-846 Method 6020A:

The matrix spike (MS) for batch WG1097091 exhibited percent recoveries greater than the upper control limit (i.e. 125%) for aluminum and iron. The original sample results were greater than four times the spiked amount; no qualification is necessary.

The method blank for batch WG1097091 displayed a positive detection for total sodium at a concentration of 22.8 mg/kg. The associated positive detections are greater than three times the blank contamination; no qualification is necessary.

COMMENTS:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All laboratory data packages met ASP Category B requirements and all sample holding times were met.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Emily Strake, CEP
Senior Project Chemist/Risk Assessor

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To: Andrea Scher, Langan Senior Staff Scientist

From: Emily Strake, Langan Senior Project Chemist/Risk Assessor

Date: May 15, 2018

Re: Data Usability Summary Report
For 4650 Broadway
Manhattan, New York
Soil Vapor Samples Collected March 2018
Langan Project No.: 170505501

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of soil vapor samples collected on March 12, 2018 by Langan Engineering and Environmental Services ("Langan") at 4650 Broadway located in Manhattan, New York. The samples were analyzed by Alpha Analytical located in Mansfield, MA (NYSDOH ELAP registration #11627) for volatile organic compounds (VOCs) using USEPA Method TO-15 (Determination of VOCs in Air Collected In Specially-Prepared Canister And Analyzed by Gas Chromatography/Mass Spectrometry) and TO-15 selective ion monitoring (SIM).

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

TABLE 1: SAMPLE SUMMARY

<i>SDG</i>	<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Sample Date</i>	<i>Analytical Parameters</i>
L1808458	L1808458-01	SV01_031218	3/12/2018	VOCs
L1808458	L1808458-02	SV02_031218	3/12/2018	VOCs
L1808458	L1808458-03	SV03_031218	3/12/2018	VOCs
L1808458	L1808458-04	SV04_031218	3/12/2018	VOCs

VALIDATION OVERVIEW

This data validation was performed in accordance with USEPA Region II SOP #HW-31, "Analysis of VOCs in Air Contained in Canister by Method TO-15" (September 2016, Revision 6), the USEPA Contract Laboratory Program, "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA-540-R-2017-001, January 2017) and the specifics of the methods employed.

Validation includes evaluation of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the

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originator. Items subject to review in this memorandum include sample preservation, holding times, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, laboratory duplicates, internal standard area counts, target compound identification and quantification, chromatograms, clean canister certifications and overall system performance.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U** – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- NJ** – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items subject to review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

TABLE 2: VALIDATOR-APPLIED QUALIFICATION

<i>Project Sample ID</i>	<i>Analysis</i>	<i>Analyte</i>	<i>CAS No.</i>	<i>Validator Qualifier</i>
SV01_031218	TO15	Isopropanol	67-63-0	J
SV03_031218	TO15	Isopropanol	67-63-0	J
SV04_031218	TO15	Isopropanol	67-63-0	J

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

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MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The minor deficiencies are identified below.

VOCs by USEPA Method TO-15:

The initial calibration (ICAL) analyzed for instrument AIRPIANO2 exhibited a relative standard deviation (RSD) greater than the upper control limit (i.e. 30%) for isopropyl alcohol (38.94%). The associated results in samples SV01_031218, SV03_031218, and SV04_031218 are qualified as "J" based on potential indeterminate bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The other deficiencies are identified below.

VOCs by USEPA Method TO-15:

The flow rate comparison for the flow controller exhibited a relative percent difference (RPD) greater than the control limit (i.e. 20%) for the flow controller associated with sample SV01_031218 (24%). This non-conformance indicates that the flow rate into the canister may have fluctuated during sampling. The sample of air contained in the canister is considered representative of site conditions; the volume obtained may not reflect a time-weighted average sample. This non-conformance does not require qualification.

COMMENTS:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All laboratory data packages met ASP Category B requirements and all sample holding times were met.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:

Technical Memorandum

Data Usability Summary Report
For 4650 Broadway
Manhattan, New York
Langan Project No.: 170505501
May 15, 2018 Page 4 of 4



Emily Strake, CEP
Senior Project Chemist/Risk Assessor

2700 Kelly Road, Suite 200 Warrington, PA 18976 T: 215.491.6500 F: 215.491.6501
Mailing Address: P.O. Box 1569 Doylestown, PA 18901

To: Joshua Golding, Langan Senior Staff Engineer
From: Emily Strake, Langan Senior Project Chemist
Date: November 5, 2019
Re: Data Usability Summary Report
For 4650 Broadway
August 2019 Soil Samples
Langan Project No.: 170505502

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of soil samples collected in August 2019 by Langan Engineering and Environmental Services ("Langan") at the 4650 Broadway site ("the site"). The samples were analyzed by Alpha Analytical Laboratories, Inc. (NYSDOH NELAP registration # 11148) and Eurofins Lancaster Laboratories (NYSDOH NELAP registration # 10670) for 1,4-dioxane, per- and polyfluoroalkyl substances (PFAS), total oxidizable precursors (TOP) assay, and total solids (%S) by the methods specified below.

- 1,4-Dioxane by SW-846 Method 8270D SIM
- PFAS by USEPA Method 537M
- TOP Assay by USEPA Method 537M
- Total Solids by Standard Method 2540G

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

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Data Usability Summary Report
 For 4650 Broadway
 August 2019 Soil Samples
 Langan Project No.: 170505502
 November 5, 2019 Page 2 of 8

TABLE 1: SAMPLE SUMMARY

SDG	Lab Sample ID	Client Sample ID	Sample Date	Analytical Parameters
L1938564	L1938564-01	DUP01_082619	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-02	RSB09A_1-2	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-03	RSB09A_6-7	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-04	RSB08A_0-1	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-05	RSB08A_7-8	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-06	RSB07A_2-3	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-07	RSB07A_5-6	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-08	RSB06A_1-2	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-09	RSB06A_6-7	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-10	RSB15A_3-4	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-11	RSB15A_5-6	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-12	RSB14A_2-3	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-13	RSB14A_5-6	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-14	RSB05A_0-1	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-15	RSB05A_5-6	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-16	RSB03A_0-1	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-17	RSB03A_5-6	8/26/2019	1,4-Dioxane, PFAS, %S
L1938564	L1938564-18	FB01_082619	8/26/2019	1,4-Dioxane, PFAS
AAL06	1137779	RSB09A_6-7	8/26/2019	PFAS, TOP Assay, %S

Validation Overview

This data validation was performed in accordance with USEPA Region II SOP #HW-35A, "Semivolatile Data Validation" (September 2016, Revision 1), the USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA-540-R-2017-002, January 2017) and the specifics of the methods employed.

EPA Method 537 was developed and validated for the analysis of finished drinking water from surface water and groundwater sources. Laboratories have modified Method 537 to enable the analysis of groundwater and soil, and to incorporate PFAS analytes not currently addressed by the promulgated method. NYSDOH offers certification for PFOA and PFOS in the drinking water category. Non-potable water and soil certification is not available; however, the method describes

Technical Memorandum

acceptable modifications. EPA recommends that modified methods be assessed relative to project goals and data quality objectives.

Validation includes review of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include holding times, sample preservation, sample extraction and digestion, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, system monitoring compounds, internal standard area counts, isotope dilution recoveries, matrix spike/spike duplicate recoveries, target compound identification and quantification, chromatograms, overall system performance, field duplicate, and field blank sample results.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- U** – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- NJ** – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

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Data Usability Summary Report
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 August 2019 Soil Samples
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TABLE 2: VALIDATOR-APPLIED QUALIFICATION

<i>Client Sample ID</i>	<i>Analysis</i>	<i>CAS #</i>	<i>Analyte</i>	<i>Validator Qualifier</i>
DUP01_082619	E537(M)	39108-34-4	1H,1H,2H,2H-PERFLUORODECANESULFONIC ACID	UJ
RSB09A_1-2	E537(M)	39108-34-4	1H,1H,2H,2H-PERFLUORODECANESULFONIC ACID	UJ
RSB08A_0-1	E537(M)	39108-34-4	1H,1H,2H,2H-PERFLUORODECANESULFONIC ACID	UJ
RSB08A_7-8	E537(M)	39108-34-4	1H,1H,2H,2H-PERFLUORODECANESULFONIC ACID	UJ
RSB08A_7-8	E537(M)	27619-97-2	1H,1H,2H,2H-PERFLUOROOCTANESULFONIC ACID	UJ
RSB08A_7-8	E537(M)	2991-50-6	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID	UJ
RSB08A_7-8	E537(M)	2355-31-9	N-METHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID	UJ
RSB08A_7-8	E537(M)	375-73-5	PERFLUOROBUTANESULFONIC ACID	UJ
RSB08A_7-8	E537(M)	375-22-4	PERFLUOROBUTANOIC ACID	UJ
RSB08A_7-8	E537(M)	335-76-2	PERFLUORODECANOIC ACID	UJ
RSB08A_7-8	E537(M)	307-55-1	PERFLUORODODECANOIC ACID	UJ
RSB08A_7-8	E537(M)	375-92-8	PERFLUOROHEPTANESULFONIC ACID	UJ
RSB08A_7-8	E537(M)	375-85-9	PERFLUOROHEPTANOIC ACID	J
RSB08A_7-8	E537(M)	307-24-4	PERFLUROHEXANOIC ACID	UJ
RSB08A_7-8	E537(M)	375-95-1	PERFLURONONANOIC ACID	UJ
RSB08A_7-8	E537(M)	1763-23-1	PERFLUOROOCTANESULFONIC ACID	J
RSB08A_7-8	E537(M)	335-67-1	PERFLUOROOCTANOIC ACID	UJ
RSB08A_7-8	E537(M)	2706-90-3	PERFLUOROPENTANOIC ACID	UJ
RSB08A_7-8	E537(M)	2058-94-8	PERFLUOROUNDECANOIC ACID	UJ
RSB07A_2-3	E537(M)	39108-34-4	1H,1H,2H,2H-PERFLUORODECANESULFONIC ACID	UJ
RSB07A_5-6	E537(M)	39108-34-4	1H,1H,2H,2H-PERFLUORODECANESULFONIC ACID	UJ
RSB06A_1-2	E537(M)	39108-34-4	1H,1H,2H,2H-PERFLUORODECANESULFONIC ACID	UJ
RSB06A_6-7	E537(M)	39108-34-4	1H,1H,2H,2H-PERFLUORODECANESULFONIC ACID	UJ

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<i>Client Sample ID</i>	<i>Analysis</i>	<i>CAS #</i>	<i>Analyte</i>	<i>Validator Qualifier</i>
RSB15A_3-4	E537(M)	2991-50-6	N-ETHYL PERFLUOROOCETANESULFONAMIDOACETIC ACID	J
RSB15A_3-4	E537(M)	2355-31-9	N-METHYL PERFLUOROOCETANESULFONAMIDOACETIC ACID	UJ
RSB15A_3-4	E537(M)	375-22-4	PERFLUOROBUTANOIC ACID	UJ
RSB15A_3-4	E537(M)	754-91-6	PERFLUOROOCETANESULFONAMIDE	R
RSB15A_5-6	E537(M)	1763-23-1	PERFLUOROOCETANESULFONIC ACID	J
RSB03A_0-1	E537(M)	375-22-4	PERFLUOROBUTANOIC ACID	U (1.11)
RSB09A_6-7	E537(M)	307-24-4	Perfluorohexanoic acid	UJ
RSB09A_6-7	E537(M)	335-67-1	Perfluorooctanoic acid	UJ
RSB09A_6-7	E537(M)	2058-94-8	Perfluoroundecanoic acid	UJ
RSB09A_6-7	E537(M)	31506-32-8	N-methyl perfluoro-1-octanesulfonamide	UJ
RSB09A_6-7	E537(M)	4151-50-2	N-ethyl perfluoro-1-octanesulfonamide	UJ

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. The section below describes the major deficiencies that were identified.

PFAS by USEPA Method 537M:

L1938564:

The sample RSB15A_3-4 exhibited a percent recovery below 10% for the standard isotope perfluoro[13C8]octanesulfonamide (0%). The associated non-detection is rejected.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

PFAS by USEPA Method 537M:

L1938564:

The sample RSB08A_7-8 exhibited percent recoveries below the lower control limit (LCL) for the standard isotopes 1H,1H,2H,2H-perfluoro[1,2-13C2]octanesulfonic acid (19%), n-

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deuterioethylperfluoro-1-octanesulfonamidoacetic acid (23%), n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (15%), perfluoro[1,2,3,4,5,6,7-13C7]undecanoic acid (51%), perfluoro[1,2,3,4,5,6-13C6]decanoic acid (48%), perfluoro[1,2,3,4,6-13C5]hexanoic acid (44%), perfluoro[1,2,3,4-13C4]heptanoic acid (43%), perfluoro[1,2,3-13C3]hexanesulfonic acid (56%), perfluoro[1,2-13C2]dodecanoic acid (48%), perfluoro[13C4]butanoic acid (44%), perfluoro[13C5]pentanoic acid (47%), perfluoro[13C8]octanesulfonic acid (62%), perfluoro[13C8]octanoic acid (44%), perfluoro[13C9]nonanoic acid (41%), and perfluoro[2,3,4-13C3]butanesulfonic acid (64%). The associated results are qualified as "J" or "UJ" based on potential low bias.

The sample RSB15A_3-4 exhibited percent recoveries below the LCL for the standard isotopes n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (29%), n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (16%), and perfluoro[13C4]butanoic acid (50%). The associated results are qualified as "J" or "UJ" based on potential low bias.

The sample RSB15A_5-6 exhibited a percent recovery below the LCL for the standard isotope perfluoro[13C8]octanesulfonic acid (64%). The associated results are qualified as "J" based on potential low bias.

The method blank for batch WG1280019 exhibited a detection of perfluorobutanoic acid (0.123 ug/kg). The associated results in sample RSB03A_0-1 are qualified as "U" at the reporting limit based on potential blank contamination.

The continuing calibration verification analyzed on 9/9/2019 at 20:21 exhibited a percent recovery below the lower control limit for 1H,1H,2H,2H-perfluorodecanesulfonic acid (46.4%). The associated results in sample DUP01_082619, RSB09A_1-2, RSB08A_0-1, RSB08A_7-8, RSB07A_2-3, RSB07A_5-6, RSB06A_1-2, and RSB06A_6-7 are qualified as "UJ" based on potential low bias.

TOP Assay by USEPA Method 537M:

AAL06:

The sample RSB09A_6-7 exhibited percent recoveries below the LCL for the standard isotopes d3-n-methyl perfluoro-1-octanesulfonamide (48%), d5-n-ethyl perfluoro-1-octanesulfonamide (53%), 13c2-perfluorohexanoic acid-prs (40%), 13c2-perfluoroundecanoic acid-prs (59%), and 13c4-perfluorooctanoic acid-prs (42%). The associated results are qualified as "UJ" based on potential low bias.

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OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

PFAS by USEPA Method 537M:

L1938564:

The laboratory control sample and duplicate for batch WG1280019 exhibited percent recoveries above the upper control limit (UCL) for perfluorodecanesulfonic acid (198%, 186%), perfluoroheptanesulfonic acid (193%, 185%), perfluorohexanesulfonic acid (134%), perfluorooctanesulfonic acid (189%, 185%), and perfluorobutanesulfonic acid (130%). The associated results are non-detections. No qualification is necessary.

The matrix spike and duplicate (MS/MSD) for batch WG1280019 exhibited percent recoveries above the UCL for perfluorodecanesulfonic acid (152%, 170%), perfluoroheptanesulfonic acid (146%, 166%), perfluorohexanesulfonic acid (160%, 143%), and perfluorooctanesulfonic acid (147%, 165%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

The MS/MSD for batch WG1280019 exhibited a relative percent difference above the control limit for 1H,1H,2H,2H-perfluorooctanesulfonic acid (43%). Organic results are not qualified on the basis of MS/MSD RPDs alone. No qualification is necessary.

The continuing calibration verification analyzed on 9/9/2019 at 20:21 exhibited a percent recovery above the UCL for perfluorodecanesulfonic acid (171.7%). The associated results are non-detections. No qualification is necessary.

TOP Assay by USEPA Method 537M:

AAL06:

The sample RSB09A_6-7 exhibited percent recoveries above the UCL for the standard isotopes 13C2-6:2 fluorotelomer sulfonate (227%) and 13C2-8:2 fluorotelomer sulfonate (150%). The associated results are non-detections. No qualification is necessary.

The LCS/LCSD for batch 19253015 exhibited a percent recovery below the LCL for n-ethyl perfluoro-1-octanesulfonamide (65, 68%). The associated result was previously qualified. No further action is necessary.

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COMMENTS:

One field duplicate and parent sample pairs were collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than $\pm 2X$ the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 50% for soil. The following field duplicate and parent sample pairs were compared to the precision criteria:

- DUP01_082619 and RSB09A_1-2: criteria met for all analytes.

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified, with the exception of the rejected results. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 99.8%.

Signed:



Emily Strake, CEP
Senior Project Chemist

APPENDIX G
LABORATORY DATA REPORTS



ANALYTICAL REPORT

Lab Number:	L1812210
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	04/17/18

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1812210-01	RSB04_6-7	SOIL	NY, NY	04/09/18 09:20	04/09/18
L1812210-02	RSB04_1-2	SOIL	NY, NY	04/09/18 09:50	04/09/18
L1812210-03	RSB04_10-11	SOIL	NY, NY	04/09/18 09:55	04/09/18
L1812210-04	RSB10_1-2	SOIL	NY, NY	04/09/18 11:30	04/09/18
L1812210-05	RSB10_9-10	SOIL	NY, NY	04/09/18 11:11	04/09/18
L1812210-06	RSB11_8-9	SOIL	NY, NY	04/09/18 13:45	04/09/18
L1812210-07	RSB11_5-6	SOIL	NY, NY	04/09/18 14:05	04/09/18
L1812210-08	RSB11_1-2	SOIL	NY, NY	04/09/18 14:10	04/09/18
L1812210-09	RSB12_1-2	SOIL	NY, NY	04/09/18 15:18	04/09/18
L1812210-10	RSB12_7-8	SOIL	NY, NY	04/09/18 14:54	04/09/18
L1812210-11	RSB12_5-6	SOIL	NY, NY	04/09/18 15:05	04/09/18
L1812210-12	RSBDUP01_040918	SOIL	NY, NY	04/09/18 00:00	04/09/18
L1812210-13	RSBTB01_040918	WATER	NY, NY	04/09/18 00:00	04/09/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The analyses performed were specified by the client.

Volatile Organics

L1812210-01, -05 and -07: Differences were noted between the results of the original analysis and the high-level re-analysis which have been attributed to vial discrepancies. The results of the high-level analysis are reported.

The WG1105799-5 Method Blank, associated with L1812210-06 and -07, has a concentration above the reporting limit for bromomethane. Since the samples were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

The WG1105800-5 Method Blank, associated with L1812210-03 and -04, has a concentration above the reporting limit for bromomethane. Since the samples were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

The WG1106150-5 Method Blank, associated with L1812210-08, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Semivolatile Organics

L1812210-07: The sample has elevated detection limits due to the dilution required by the sample matrix.

The WG1105472-4/-5 MS/MSD recoveries, performed on L1812210-05, are below the acceptance criteria for benzoic acid (0%/0%) due to the concentration of this compound falling below the reported detection limit.

Total Metals

L1812210-01 through -12: The sample has elevated detection limits for all elements, with the exception of

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Case Narrative (continued)

mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1105284-3/-4 MS/MSD recoveries, performed on L1812210-05, are outside the acceptance criteria for calcium (30%/32%) and magnesium (MS at 72%). A post digestion spike was performed and was within acceptance criteria.

The WG1105284-3/-4 MS/MSD recoveries for iron (0%/0%), performed on L1812210-05, do not apply because the sample concentration is greater than four times the spike amount added.

The WG1105394-3/-4 MS/MSD recoveries, performed on L1812210-05, are outside the acceptance criteria for mercury (123%/124%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total

The WG1105167-2/-3 LCS/LCSD recoveries (72%/62%), associated with L1812210-01 through -10, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

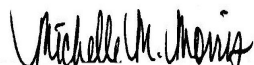
The WG1105168-2/-3 LCS/LCSD recoveries (74%/63%), associated with L1812210-11 and -12, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1105036-4/-5 MS/MSD RPD (37%), performed on L1812210-05, is above the acceptance criteria.

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:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 04/17/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01
 Client ID: RSB04_6-7
 Sample Location: NY, NY

Date Collected: 04/09/18 09:20
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 11:13
 Analyst: MV
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	700	120	1
1,1-Dichloroethane	ND		ug/kg	100	19.	1
Chloroform	ND		ug/kg	100	26.	1
Carbon tetrachloride	ND		ug/kg	70	24.	1
1,2-Dichloropropane	ND		ug/kg	240	16.	1
Dibromochloromethane	ND		ug/kg	70	12.	1
1,1,2-Trichloroethane	ND		ug/kg	100	22.	1
Tetrachloroethene	ND		ug/kg	70	21.	1
Chlorobenzene	ND		ug/kg	70	24.	1
Trichlorofluoromethane	ND		ug/kg	350	29.	1
1,2-Dichloroethane	ND		ug/kg	70	17.	1
1,1,1-Trichloroethane	ND		ug/kg	70	24.	1
Bromodichloromethane	ND		ug/kg	70	22.	1
trans-1,3-Dichloropropene	ND		ug/kg	70	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	70	16.	1
1,3-Dichloropropene, Total	ND		ug/kg	70	15.	1
1,1-Dichloropropene	ND		ug/kg	350	23.	1
Bromoform	ND		ug/kg	280	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	70	21.	1
Benzene	ND		ug/kg	70	14.	1
Toluene	21	J	ug/kg	100	14.	1
Ethylbenzene	14	J	ug/kg	70	12.	1
Chloromethane	ND		ug/kg	350	31.	1
Bromomethane	47	J	ug/kg	140	24.	1
Vinyl chloride	ND		ug/kg	140	22.	1
Chloroethane	ND		ug/kg	140	22.	1
1,1-Dichloroethene	ND		ug/kg	70	26.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	17.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01
Client ID: RSB04_6-7
Sample Location: NY, NY

Date Collected: 04/09/18 09:20
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	70	21.	1
1,2-Dichlorobenzene	ND		ug/kg	350	13.	1
1,3-Dichlorobenzene	ND		ug/kg	350	15.	1
1,4-Dichlorobenzene	ND		ug/kg	350	13.	1
Methyl tert butyl ether	ND		ug/kg	140	11.	1
p/m-Xylene	48	J	ug/kg	140	25.	1
o-Xylene	27	J	ug/kg	140	24.	1
Xylenes, Total	75	J	ug/kg	140	24.	1
cis-1,2-Dichloroethene	ND		ug/kg	70	24.	1
1,2-Dichloroethene, Total	ND		ug/kg	70	17.	1
Dibromomethane	ND		ug/kg	700	17.	1
Styrene	ND		ug/kg	140	28.	1
Dichlorodifluoromethane	ND		ug/kg	700	35.	1
Acetone	ND		ug/kg	700	160	1
Carbon disulfide	ND		ug/kg	700	77.	1
2-Butanone	ND		ug/kg	700	48.	1
Vinyl acetate	ND		ug/kg	700	11.	1
4-Methyl-2-pentanone	ND		ug/kg	700	17.	1
1,2,3-Trichloropropane	ND		ug/kg	700	12.	1
2-Hexanone	ND		ug/kg	700	47.	1
Bromochloromethane	ND		ug/kg	350	25.	1
2,2-Dichloropropane	ND		ug/kg	350	32.	1
1,2-Dibromoethane	ND		ug/kg	280	14.	1
1,3-Dichloropropane	ND		ug/kg	350	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	70	22.	1
Bromobenzene	ND		ug/kg	350	15.	1
n-Butylbenzene	22	J	ug/kg	70	16.	1
sec-Butylbenzene	17	J	ug/kg	70	15.	1
tert-Butylbenzene	ND		ug/kg	350	17.	1
o-Chlorotoluene	ND		ug/kg	350	16.	1
p-Chlorotoluene	ND		ug/kg	350	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	350	28.	1
Hexachlorobutadiene	ND		ug/kg	350	24.	1
Isopropylbenzene	ND		ug/kg	70	14.	1
p-Isopropyltoluene	ND		ug/kg	70	14.	1
Naphthalene	34	J	ug/kg	350	9.7	1
Acrylonitrile	ND		ug/kg	700	36.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01
Client ID: RSB04_6-7
Sample Location: NY, NY

Date Collected: 04/09/18 09:20
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	26	J	ug/kg	70	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	350	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	15.	1
1,3,5-Trimethylbenzene	67	J	ug/kg	350	11.	1
1,2,4-Trimethylbenzene	140	J	ug/kg	350	13.	1
1,4-Dioxane	ND		ug/kg	2800	1000	1
p-Diethylbenzene	ND		ug/kg	280	280	1
p-Ethyltoluene	53	J	ug/kg	280	16.	1
1,2,4,5-Tetramethylbenzene	55	J	ug/kg	280	11.	1
Ethyl ether	ND		ug/kg	350	18.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	350	28.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	92		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02
 Client ID: RSB04_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 09:50
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 15:10
 Analyst: PK
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.36	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.47	1
1,2-Dichloropropane	ND		ug/kg	4.7	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.42	1
Tetrachloroethene	ND		ug/kg	1.4	0.41	1
Chlorobenzene	ND		ug/kg	1.4	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.56	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.47	1
Bromodichloromethane	ND		ug/kg	1.4	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.31	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.44	1
Bromoform	ND		ug/kg	5.4	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.40	1
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Chloromethane	ND		ug/kg	6.8	0.59	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.43	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.33	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02

Date Collected: 04/09/18 09:50

Client ID: RSB04_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.46	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.32	1
Styrene	ND		ug/kg	2.7	0.54	1
Dichlorodifluoromethane	ND		ug/kg	14	0.68	1
Acetone	5.8	J	ug/kg	14	3.1	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.93	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.90	1
Bromochloromethane	ND		ug/kg	6.8	0.48	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.61	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.29	1
tert-Butylbenzene	ND		ug/kg	6.8	0.33	1
o-Chlorotoluene	ND		ug/kg	6.8	0.30	1
p-Chlorotoluene	ND		ug/kg	6.8	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.47	1
Isopropylbenzene	ND		ug/kg	1.4	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.27	1
Naphthalene	0.20	J	ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02
Client ID: RSB04_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 09:50
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.29	1
1,3,5-Trimethylbenzene	0.25	J	ug/kg	6.8	0.22	1
1,2,4-Trimethylbenzene	0.63	J	ug/kg	6.8	0.25	1
1,4-Dioxane	ND		ug/kg	54	20.	1
p-Diethylbenzene	ND		ug/kg	5.4	5.4	1
p-Ethyltoluene	ND		ug/kg	5.4	0.32	1
1,2,4,5-Tetramethylbenzene	0.59	J	ug/kg	5.4	0.21	1
Ethyl ether	ND		ug/kg	6.8	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	91		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03
 Client ID: RSB04_10-11
 Sample Location: NY, NY

Date Collected: 04/09/18 09:55
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 00:23
 Analyst: MV
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.2	0.40	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.35	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.40	1
Bromodichloromethane	ND		ug/kg	1.2	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.38	1
Bromoform	ND		ug/kg	4.6	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.34	1
Benzene	ND		ug/kg	1.2	0.22	1
Toluene	0.23	J	ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	5.8	0.50	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.43	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.28	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03

Date Collected: 04/09/18 09:55

Client ID: RSB04_10-11

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.35	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.18	1
p/m-Xylene	ND		ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.39	1
Xylenes, Total	ND		ug/kg	2.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.28	1
Dibromomethane	ND		ug/kg	12	0.27	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	12	0.58	1
Acetone	13		ug/kg	12	2.6	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.79	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.77	1
Bromochloromethane	ND		ug/kg	5.8	0.41	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.52	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.23	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Bromobenzene	ND		ug/kg	5.8	0.25	1
n-Butylbenzene	0.28	J	ug/kg	1.2	0.26	1
sec-Butylbenzene	0.36	J	ug/kg	1.2	0.25	1
tert-Butylbenzene	ND		ug/kg	5.8	0.28	1
o-Chlorotoluene	ND		ug/kg	5.8	0.25	1
p-Chlorotoluene	ND		ug/kg	5.8	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.46	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.40	1
Isopropylbenzene	ND		ug/kg	1.2	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.23	1
Naphthalene	0.17	J	ug/kg	5.8	0.16	1
Acrylonitrile	ND		ug/kg	12	0.59	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03
Client ID: RSB04_10-11
Sample Location: NY, NY

Date Collected: 04/09/18 09:55
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.25	1
1,3,5-Trimethylbenzene	0.45	J	ug/kg	5.8	0.18	1
1,2,4-Trimethylbenzene	0.83	J	ug/kg	5.8	0.21	1
1,4-Dioxane	ND		ug/kg	46	16.	1
p-Diethylbenzene	ND		ug/kg	4.6	4.6	1
p-Ethyltoluene	ND		ug/kg	4.6	0.27	1
1,2,4,5-Tetramethylbenzene	1.6	J	ug/kg	4.6	0.18	1
Ethyl ether	ND		ug/kg	5.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04
 Client ID: RSB10_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 11:30
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 00:49
 Analyst: MV
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.39	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	ND		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.40	1
Bromodichloromethane	ND		ug/kg	1.1	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.37	1
Bromoform	ND		ug/kg	4.6	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	0.36	J	ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.7	0.50	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04

Date Collected: 04/09/18 11:30

Client ID: RSB10_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.17	1
p/m-Xylene	ND		ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.38	1
Xylenes, Total	ND		ug/kg	2.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.57	1
Acetone	2.9	J	ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.79	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.41	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.51	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.23	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.25	1
n-Butylbenzene	ND		ug/kg	1.1	0.26	1
sec-Butylbenzene	ND		ug/kg	1.1	0.25	1
tert-Butylbenzene	ND		ug/kg	5.7	0.28	1
o-Chlorotoluene	ND		ug/kg	5.7	0.25	1
p-Chlorotoluene	ND		ug/kg	5.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.40	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.23	1
Naphthalene	ND		ug/kg	5.7	0.16	1
Acrylonitrile	ND		ug/kg	11	0.59	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04
Client ID: RSB10_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 11:30
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.24	1
1,3,5-Trimethylbenzene	0.28	J	ug/kg	5.7	0.18	1
1,2,4-Trimethylbenzene	0.82	J	ug/kg	5.7	0.21	1
1,4-Dioxane	ND		ug/kg	46	16.	1
p-Diethylbenzene	ND		ug/kg	4.6	4.6	1
p-Ethyltoluene	0.48	J	ug/kg	4.6	0.27	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.18	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05 D
 Client ID: RSB10_9-10
 Sample Location: NY, NY

Date Collected: 04/09/18 11:11
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/17/18 11:17
 Analyst: MV
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3700	620	4
1,1-Dichloroethane	ND		ug/kg	560	100	4
Chloroform	ND		ug/kg	560	140	4
Carbon tetrachloride	ND		ug/kg	370	130	4
1,2-Dichloropropane	ND		ug/kg	1300	85.	4
Dibromochloromethane	ND		ug/kg	370	66.	4
1,1,2-Trichloroethane	ND		ug/kg	560	120	4
Tetrachloroethene	ND		ug/kg	370	110	4
Chlorobenzene	ND		ug/kg	370	130	4
Trichlorofluoromethane	ND		ug/kg	1900	160	4
1,2-Dichloroethane	ND		ug/kg	370	92.	4
1,1,1-Trichloroethane	ND		ug/kg	370	130	4
Bromodichloromethane	ND		ug/kg	370	120	4
trans-1,3-Dichloropropene	ND		ug/kg	370	78.	4
cis-1,3-Dichloropropene	ND		ug/kg	370	86.	4
1,3-Dichloropropene, Total	ND		ug/kg	370	78.	4
1,1-Dichloropropene	ND		ug/kg	1900	120	4
Bromoform	ND		ug/kg	1500	88.	4
1,1,2,2-Tetrachloroethane	ND		ug/kg	370	110	4
Benzene	ND		ug/kg	370	72.	4
Toluene	ND		ug/kg	560	73.	4
Ethylbenzene	770		ug/kg	370	63.	4
Chloromethane	ND		ug/kg	1900	160	4
Bromomethane	ND		ug/kg	750	130	4
Vinyl chloride	ND		ug/kg	750	120	4
Chloroethane	ND		ug/kg	750	120	4
1,1-Dichloroethene	ND		ug/kg	370	140	4
trans-1,2-Dichloroethene	ND		ug/kg	560	90.	4

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05 D

Date Collected: 04/09/18 11:11

Client ID: RSB10_9-10

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	370	110	4
1,2-Dichlorobenzene	ND		ug/kg	1900	68.	4
1,3-Dichlorobenzene	ND		ug/kg	1900	81.	4
1,4-Dichlorobenzene	ND		ug/kg	1900	68.	4
Methyl tert butyl ether	ND		ug/kg	750	57.	4
p/m-Xylene	1700		ug/kg	750	130	4
o-Xylene	390	J	ug/kg	750	130	4
Xylenes, Total	2100	J	ug/kg	750	130	4
cis-1,2-Dichloroethene	ND		ug/kg	370	130	4
1,2-Dichloroethene, Total	ND		ug/kg	370	90.	4
Dibromomethane	ND		ug/kg	3700	89.	4
Styrene	ND		ug/kg	750	150	4
Dichlorodifluoromethane	ND		ug/kg	3700	190	4
Acetone	ND		ug/kg	3700	860	4
Carbon disulfide	ND		ug/kg	3700	410	4
2-Butanone	ND		ug/kg	3700	260	4
Vinyl acetate	ND		ug/kg	3700	57.	4
4-Methyl-2-pentanone	ND		ug/kg	3700	91.	4
1,2,3-Trichloropropane	ND		ug/kg	3700	66.	4
2-Hexanone	ND		ug/kg	3700	250	4
Bromochloromethane	ND		ug/kg	1900	130	4
2,2-Dichloropropane	ND		ug/kg	1900	170	4
1,2-Dibromoethane	ND		ug/kg	1500	74.	4
1,3-Dichloropropane	ND		ug/kg	1900	68.	4
1,1,1,2-Tetrachloroethane	ND		ug/kg	370	120	4
Bromobenzene	ND		ug/kg	1900	82.	4
n-Butylbenzene	930		ug/kg	370	85.	4
sec-Butylbenzene	490		ug/kg	370	81.	4
tert-Butylbenzene	ND		ug/kg	1900	92.	4
o-Chlorotoluene	ND		ug/kg	1900	82.	4
p-Chlorotoluene	ND		ug/kg	1900	68.	4
1,2-Dibromo-3-chloropropane	ND		ug/kg	1900	150	4
Hexachlorobutadiene	ND		ug/kg	1900	130	4
Isopropylbenzene	1200		ug/kg	370	72.	4
p-Isopropyltoluene	260	J	ug/kg	370	75.	4
Naphthalene	750	J	ug/kg	1900	52.	4
Acrylonitrile	ND		ug/kg	3700	190	4

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05 D
Client ID: RSB10_9-10
Sample Location: NY, NY

Date Collected: 04/09/18 11:11
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	3900		ug/kg	370	80.	4
1,2,3-Trichlorobenzene	ND		ug/kg	1900	94.	4
1,2,4-Trichlorobenzene	ND		ug/kg	1900	80.	4
1,3,5-Trimethylbenzene	10000		ug/kg	1900	60.	4
1,2,4-Trimethylbenzene	28000		ug/kg	1900	69.	4
1,4-Dioxane	ND		ug/kg	15000	5400	4
p-Diethylbenzene	7500		ug/kg	1500	1500	4
p-Ethyltoluene	16000		ug/kg	1500	87.	4
1,2,4,5-Tetramethylbenzene	2200		ug/kg	1500	58.	4
Ethyl ether	ND		ug/kg	1900	97.	4
trans-1,4-Dichloro-2-butene	ND		ug/kg	1900	150	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	91		70-130

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06 D

Date Collected: 04/09/18 13:45

Client ID: RSB11_8-9

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 04/11/18 23:57

Analyst: MV

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	36000	6000	50
1,1-Dichloroethane	ND		ug/kg	5400	980	50
Chloroform	ND		ug/kg	5400	1300	50
Carbon tetrachloride	ND		ug/kg	3600	1200	50
1,2-Dichloropropane	ND		ug/kg	13000	830	50
Dibromochloromethane	ND		ug/kg	3600	640	50
1,1,2-Trichloroethane	ND		ug/kg	5400	1100	50
Tetrachloroethene	ND		ug/kg	3600	1100	50
Chlorobenzene	ND		ug/kg	3600	1300	50
Trichlorofluoromethane	ND		ug/kg	18000	1500	50
1,2-Dichloroethane	ND		ug/kg	3600	890	50
1,1,1-Trichloroethane	ND		ug/kg	3600	1300	50
Bromodichloromethane	ND		ug/kg	3600	1100	50
trans-1,3-Dichloropropene	ND		ug/kg	3600	760	50
cis-1,3-Dichloropropene	ND		ug/kg	3600	840	50
1,3-Dichloropropene, Total	ND		ug/kg	3600	760	50
1,1-Dichloropropene	ND		ug/kg	18000	1200	50
Bromoform	ND		ug/kg	14000	860	50
1,1,2,2-Tetrachloroethane	ND		ug/kg	3600	1100	50
Benzene	ND		ug/kg	3600	700	50
Toluene	ND		ug/kg	5400	710	50
Ethylbenzene	ND		ug/kg	3600	620	50
Chloromethane	ND		ug/kg	18000	1600	50
Bromomethane	ND		ug/kg	7300	1200	50
Vinyl chloride	ND		ug/kg	7300	1100	50
Chloroethane	ND		ug/kg	7300	1100	50
1,1-Dichloroethene	ND		ug/kg	3600	1400	50
trans-1,2-Dichloroethene	ND		ug/kg	5400	880	50

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06 D

Date Collected: 04/09/18 13:45

Client ID: RSB11_8-9

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	3600	1100	50
1,2-Dichlorobenzene	ND		ug/kg	18000	660	50
1,3-Dichlorobenzene	ND		ug/kg	18000	790	50
1,4-Dichlorobenzene	ND		ug/kg	18000	660	50
Methyl tert butyl ether	ND		ug/kg	7300	560	50
p/m-Xylene	2800	J	ug/kg	7300	1300	50
o-Xylene	ND		ug/kg	7300	1200	50
Xylenes, Total	2800	J	ug/kg	7300	1200	50
cis-1,2-Dichloroethene	ND		ug/kg	3600	1200	50
1,2-Dichloroethene, Total	ND		ug/kg	3600	880	50
Dibromomethane	ND		ug/kg	36000	870	50
Styrene	ND		ug/kg	7300	1400	50
Dichlorodifluoromethane	ND		ug/kg	36000	1800	50
Acetone	ND		ug/kg	36000	8300	50
Carbon disulfide	ND		ug/kg	36000	4000	50
2-Butanone	ND		ug/kg	36000	2500	50
Vinyl acetate	ND		ug/kg	36000	560	50
4-Methyl-2-pentanone	ND		ug/kg	36000	890	50
1,2,3-Trichloropropane	ND		ug/kg	36000	640	50
2-Hexanone	ND		ug/kg	36000	2400	50
Bromochloromethane	ND		ug/kg	18000	1300	50
2,2-Dichloropropane	ND		ug/kg	18000	1600	50
1,2-Dibromoethane	ND		ug/kg	14000	720	50
1,3-Dichloropropane	ND		ug/kg	18000	660	50
1,1,1,2-Tetrachloroethane	ND		ug/kg	3600	1200	50
Bromobenzene	ND		ug/kg	18000	800	50
n-Butylbenzene	30000		ug/kg	3600	830	50
sec-Butylbenzene	14000		ug/kg	3600	790	50
tert-Butylbenzene	ND		ug/kg	18000	900	50
o-Chlorotoluene	ND		ug/kg	18000	800	50
p-Chlorotoluene	ND		ug/kg	18000	660	50
1,2-Dibromo-3-chloropropane	ND		ug/kg	18000	1400	50
Hexachlorobutadiene	ND		ug/kg	18000	1300	50
Isopropylbenzene	20000		ug/kg	3600	700	50
p-Isopropyltoluene	5800		ug/kg	3600	730	50
Naphthalene	3500	J	ug/kg	18000	500	50
Acrylonitrile	ND		ug/kg	36000	1900	50

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06 D
 Client ID: RSB11_8-9
 Sample Location: NY, NY

Date Collected: 04/09/18 13:45
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	67000		ug/kg	3600	780	50
1,2,3-Trichlorobenzene	ND		ug/kg	18000	910	50
1,2,4-Trichlorobenzene	ND		ug/kg	18000	780	50
1,3,5-Trimethylbenzene	160000		ug/kg	18000	580	50
1,2,4-Trimethylbenzene	530000		ug/kg	18000	680	50
1,4-Dioxane	ND		ug/kg	140000	52000	50
p-Diethylbenzene	170000		ug/kg	14000	14000	50
p-Ethyltoluene	250000		ug/kg	14000	850	50
1,2,4,5-Tetramethylbenzene	52000		ug/kg	14000	570	50
Ethyl ether	ND		ug/kg	18000	940	50
trans-1,4-Dichloro-2-butene	ND		ug/kg	18000	1400	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	81		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07
 Client ID: RSB11_5-6
 Sample Location: NY, NY

Date Collected: 04/09/18 14:05
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/11/18 23:31
 Analyst: MV
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	790	130	1
1,1-Dichloroethane	ND		ug/kg	120	21.	1
Chloroform	ND		ug/kg	120	29.	1
Carbon tetrachloride	ND		ug/kg	79	27.	1
1,2-Dichloropropane	ND		ug/kg	280	18.	1
Dibromochloromethane	ND		ug/kg	79	14.	1
1,1,2-Trichloroethane	ND		ug/kg	120	25.	1
Tetrachloroethene	ND		ug/kg	79	24.	1
Chlorobenzene	ND		ug/kg	79	28.	1
Trichlorofluoromethane	ND		ug/kg	400	33.	1
1,2-Dichloroethane	ND		ug/kg	79	20.	1
1,1,1-Trichloroethane	ND		ug/kg	79	28.	1
Bromodichloromethane	ND		ug/kg	79	24.	1
trans-1,3-Dichloropropene	ND		ug/kg	79	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	79	18.	1
1,3-Dichloropropene, Total	ND		ug/kg	79	16.	1
1,1-Dichloropropene	ND		ug/kg	400	26.	1
Bromoform	ND		ug/kg	320	19.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	79	24.	1
Benzene	ND		ug/kg	79	15.	1
Toluene	ND		ug/kg	120	15.	1
Ethylbenzene	ND		ug/kg	79	14.	1
Chloromethane	ND		ug/kg	400	35.	1
Bromomethane	79	J	ug/kg	160	27.	1
Vinyl chloride	ND		ug/kg	160	25.	1
Chloroethane	ND		ug/kg	160	25.	1
1,1-Dichloroethene	ND		ug/kg	79	30.	1
trans-1,2-Dichloroethene	ND		ug/kg	120	19.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07

Date Collected: 04/09/18 14:05

Client ID: RSB11_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	79	24.	1
1,2-Dichlorobenzene	ND		ug/kg	400	14.	1
1,3-Dichlorobenzene	ND		ug/kg	400	17.	1
1,4-Dichlorobenzene	ND		ug/kg	400	14.	1
Methyl tert butyl ether	ND		ug/kg	160	12.	1
p/m-Xylene	ND		ug/kg	160	28.	1
o-Xylene	ND		ug/kg	160	27.	1
Xylenes, Total	ND		ug/kg	160	27.	1
cis-1,2-Dichloroethene	ND		ug/kg	79	27.	1
1,2-Dichloroethene, Total	ND		ug/kg	79	19.	1
Dibromomethane	ND		ug/kg	790	19.	1
Styrene	ND		ug/kg	160	32.	1
Dichlorodifluoromethane	ND		ug/kg	790	40.	1
Acetone	ND		ug/kg	790	180	1
Carbon disulfide	ND		ug/kg	790	87.	1
2-Butanone	ND		ug/kg	790	55.	1
Vinyl acetate	ND		ug/kg	790	12.	1
4-Methyl-2-pentanone	ND		ug/kg	790	19.	1
1,2,3-Trichloropropane	ND		ug/kg	790	14.	1
2-Hexanone	ND		ug/kg	790	53.	1
Bromochloromethane	ND		ug/kg	400	28.	1
2,2-Dichloropropane	ND		ug/kg	400	36.	1
1,2-Dibromoethane	ND		ug/kg	320	16.	1
1,3-Dichloropropane	ND		ug/kg	400	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	79	25.	1
Bromobenzene	ND		ug/kg	400	17.	1
n-Butylbenzene	ND		ug/kg	79	18.	1
sec-Butylbenzene	ND		ug/kg	79	17.	1
tert-Butylbenzene	ND		ug/kg	400	20.	1
o-Chlorotoluene	ND		ug/kg	400	18.	1
p-Chlorotoluene	ND		ug/kg	400	14.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	400	31.	1
Hexachlorobutadiene	ND		ug/kg	400	28.	1
Isopropylbenzene	ND		ug/kg	79	15.	1
p-Isopropyltoluene	ND		ug/kg	79	16.	1
Naphthalene	ND		ug/kg	400	11.	1
Acrylonitrile	ND		ug/kg	790	41.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07
Client ID: RSB11_5-6
Sample Location: NY, NY

Date Collected: 04/09/18 14:05
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	79	17.	1
1,2,3-Trichlorobenzene	ND		ug/kg	400	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	400	17.	1
1,3,5-Trimethylbenzene	ND		ug/kg	400	13.	1
1,2,4-Trimethylbenzene	29	J	ug/kg	400	15.	1
1,4-Dioxane	ND		ug/kg	3200	1100	1
p-Diethylbenzene	ND		ug/kg	320	320	1
p-Ethyltoluene	ND		ug/kg	320	18.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	320	12.	1
Ethyl ether	ND		ug/kg	400	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	400	31.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	103		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08
 Client ID: RSB11_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 14:10
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 19:03
 Analyst: MKS
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.37	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.47	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.43	1
Tetrachloroethene	ND		ug/kg	1.4	0.41	1
Chlorobenzene	ND		ug/kg	1.4	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.57	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.48	1
Bromodichloromethane	ND		ug/kg	1.4	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.31	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.45	1
Bromoform	ND		ug/kg	5.4	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.40	1
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Chloromethane	ND		ug/kg	6.8	0.59	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.43	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.33	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08

Date Collected: 04/09/18 14:10

Client ID: RSB11_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.46	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.32	1
Styrene	ND		ug/kg	2.7	0.54	1
Dichlorodifluoromethane	ND		ug/kg	14	0.68	1
Acetone	9.6	J	ug/kg	14	3.1	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.94	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.91	1
Bromochloromethane	ND		ug/kg	6.8	0.49	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.61	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	6.8	0.34	1
o-Chlorotoluene	ND		ug/kg	6.8	0.30	1
p-Chlorotoluene	ND		ug/kg	6.8	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.47	1
Isopropylbenzene	ND		ug/kg	1.4	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	ND		ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08
Client ID: RSB11_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 14:10
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.29	1
1,3,5-Trimethylbenzene	0.40	J	ug/kg	6.8	0.22	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	6.8	0.25	1
1,4-Dioxane	ND		ug/kg	54	20.	1
p-Diethylbenzene	ND		ug/kg	5.4	5.4	1
p-Ethyltoluene	0.66	J	ug/kg	5.4	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.21	1
Ethyl ether	ND		ug/kg	6.8	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09
 Client ID: RSB12_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 15:18
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 12:50
 Analyst: JC
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.27	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.35	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	5.9	0.52	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.37	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09

Date Collected: 04/09/18 15:18

Client ID: RSB12_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.40	1
Xylenes, Total	ND		ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.28	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.59	1
Acetone	6.4	J	ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.82	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.79	1
Bromochloromethane	ND		ug/kg	5.9	0.42	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.53	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	5.9	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	5.9	0.29	1
o-Chlorotoluene	ND		ug/kg	5.9	0.26	1
p-Chlorotoluene	ND		ug/kg	5.9	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.47	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.41	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	0.58	J	ug/kg	5.9	0.16	1
Acrylonitrile	ND		ug/kg	12	0.61	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09
Client ID: RSB12_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 15:18
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.26	1
1,3,5-Trimethylbenzene	0.57	J	ug/kg	5.9	0.19	1
1,2,4-Trimethylbenzene	2.1	J	ug/kg	5.9	0.22	1
1,4-Dioxane	ND		ug/kg	48	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	0.81	J	ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	0.29	J	ug/kg	4.8	0.18	1
Ethyl ether	ND		ug/kg	5.9	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	89		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10
 Client ID: RSB12_7-8
 Sample Location: NY, NY

Date Collected: 04/09/18 14:54
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 13:18
 Analyst: JC
 Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.35	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.5	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.39	1
Chlorobenzene	ND		ug/kg	1.3	0.45	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.45	1
Bromodichloromethane	ND		ug/kg	1.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.30	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.27	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.42	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.25	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.4	0.56	1
Bromomethane	ND		ug/kg	2.6	0.43	1
Vinyl chloride	ND		ug/kg	2.6	0.40	1
Chloroethane	ND		ug/kg	2.6	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.48	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.31	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10

Date Collected: 04/09/18 14:54

Client ID: RSB12_7-8

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.39	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.20	1
p/m-Xylene	ND		ug/kg	2.6	0.45	1
o-Xylene	ND		ug/kg	2.6	0.43	1
Xylenes, Total	ND		ug/kg	2.6	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.44	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.31	1
Dibromomethane	ND		ug/kg	13	0.31	1
Styrene	ND		ug/kg	2.6	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.64	1
Acetone	26		ug/kg	13	2.9	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.88	1
Vinyl acetate	ND		ug/kg	13	0.20	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.23	1
2-Hexanone	ND		ug/kg	13	0.85	1
Bromochloromethane	ND		ug/kg	6.4	0.46	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.58	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.26	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.41	1
Bromobenzene	ND		ug/kg	6.4	0.28	1
n-Butylbenzene	1.9		ug/kg	1.3	0.29	1
sec-Butylbenzene	1.6		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.4	0.32	1
o-Chlorotoluene	ND		ug/kg	6.4	0.28	1
p-Chlorotoluene	ND		ug/kg	6.4	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.51	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.45	1
Isopropylbenzene	6.0		ug/kg	1.3	0.25	1
p-Isopropyltoluene	2.0		ug/kg	1.3	0.26	1
Naphthalene	1.2	J	ug/kg	6.4	0.18	1
Acrylonitrile	ND		ug/kg	13	0.66	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10
Client ID: RSB12_7-8
Sample Location: NY, NY

Date Collected: 04/09/18 14:54
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	11		ug/kg	1.3	0.28	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.28	1
1,3,5-Trimethylbenzene	33		ug/kg	6.4	0.21	1
1,2,4-Trimethylbenzene	43		ug/kg	6.4	0.24	1
1,4-Dioxane	ND		ug/kg	51	18.	1
p-Diethylbenzene	20		ug/kg	5.1	5.1	1
p-Ethyltoluene	30		ug/kg	5.1	0.30	1
1,2,4,5-Tetramethylbenzene	8.1		ug/kg	5.1	0.20	1
Ethyl ether	ND		ug/kg	6.4	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	82		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11
 Client ID: RSB12_5-6
 Sample Location: NY, NY

Date Collected: 04/09/18 15:05
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 13:46
 Analyst: JC
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.32	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.35	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.34	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11

Date Collected: 04/09/18 15:05

Client ID: RSB12_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	0.51	J	ug/kg	2.1	0.38	1
o-Xylene	ND		ug/kg	2.1	0.36	1
Xylenes, Total	0.51	J	ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.1	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	21		ug/kg	11	2.4	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.74	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.71	1
Bromochloromethane	ND		ug/kg	5.4	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.48	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.23	1
n-Butylbenzene	0.80	J	ug/kg	1.1	0.24	1
sec-Butylbenzene	0.72	J	ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.4	0.26	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.37	1
Isopropylbenzene	2.8		ug/kg	1.1	0.21	1
p-Isopropyltoluene	0.96	J	ug/kg	1.1	0.22	1
Naphthalene	2.7	J	ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.55	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11
Client ID: RSB12_5-6
Sample Location: NY, NY

Date Collected: 04/09/18 15:05
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	6.4		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	20		ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	26		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	15.	1
p-Diethylbenzene	11		ug/kg	4.3	4.3	1
p-Ethyltoluene	13		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	4.9		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	87		70-130

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-12
 Client ID: RSDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 14:14
 Analyst: PK
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.3	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.38	1
Chloroform	ND		ug/kg	2.1	0.52	1
Carbon tetrachloride	ND		ug/kg	1.4	0.48	1
1,2-Dichloropropane	ND		ug/kg	4.9	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.44	1
Tetrachloroethene	ND		ug/kg	1.4	0.42	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	7.0	0.58	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.49	1
Bromodichloromethane	ND		ug/kg	1.4	0.43	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.29	1
1,1-Dichloropropene	ND		ug/kg	7.0	0.46	1
Bromoform	ND		ug/kg	5.6	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.41	1
Benzene	ND		ug/kg	1.4	0.27	1
Toluene	0.28	J	ug/kg	2.1	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.24	1
Chloromethane	ND		ug/kg	7.0	0.61	1
Bromomethane	ND		ug/kg	2.8	0.47	1
Vinyl chloride	ND		ug/kg	2.8	0.44	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.52	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.34	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-12
 Client ID: RSDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.42	1
1,2-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	7.0	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.21	1
p/m-Xylene	ND		ug/kg	2.8	0.49	1
o-Xylene	ND		ug/kg	2.8	0.47	1
Xylenes, Total	ND		ug/kg	2.8	0.47	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.48	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.34	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.8	0.56	1
Dichlorodifluoromethane	ND		ug/kg	14	0.70	1
Acetone	3.3	J	ug/kg	14	3.2	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.96	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.25	1
2-Hexanone	ND		ug/kg	14	0.93	1
Bromochloromethane	ND		ug/kg	7.0	0.50	1
2,2-Dichloropropane	ND		ug/kg	7.0	0.63	1
1,2-Dibromoethane	ND		ug/kg	5.6	0.28	1
1,3-Dichloropropane	ND		ug/kg	7.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	7.0	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.32	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	7.0	0.34	1
o-Chlorotoluene	ND		ug/kg	7.0	0.31	1
p-Chlorotoluene	ND		ug/kg	7.0	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.0	0.55	1
Hexachlorobutadiene	ND		ug/kg	7.0	0.48	1
Isopropylbenzene	ND		ug/kg	1.4	0.27	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	0.22	J	ug/kg	7.0	0.19	1
Acrylonitrile	ND		ug/kg	14	0.72	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-12
 Client ID: RSBDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.0	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.0	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.0	0.22	1
1,2,4-Trimethylbenzene	0.54	J	ug/kg	7.0	0.26	1
1,4-Dioxane	ND		ug/kg	56	20.	1
p-Diethylbenzene	ND		ug/kg	5.6	5.6	1
p-Ethyltoluene	ND		ug/kg	5.6	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.6	0.22	1
Ethyl ether	ND		ug/kg	7.0	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	91		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-13
 Client ID: RSBTB01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 15:20
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-13
 Client ID: RSBTB01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-13
Client ID: RSBTB01_040918
Sample Location: NY, NY

Date Collected: 04/09/18 00:00
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	92		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/18 17:51
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06-07 Batch: WG1105799-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	170		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/18 17:51
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06-07 Batch: WG1105799-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene, Total	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/18 17:51
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06-07 Batch: WG1105799-5					
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
1,4-Dioxane	ND		ug/kg	2000	720
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/18 17:51
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04 Batch: WG1105800-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	3.5		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/18 17:51
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04 Batch: WG1105800-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/18 17:51
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04 Batch: WG1105800-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:08
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,09-12 Batch: WG1105944-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:08
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,09-12 Batch: WG1105944-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:08
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,09-12 Batch: WG1105944-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	90		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:03
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1106004-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	44	J	ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:03
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1106004-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene, Total	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:03
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1106004-5					
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
1,4-Dioxane	ND		ug/kg	2000	720
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	94		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:46
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1106019-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:46
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1106019-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:46
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1106019-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	92		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 18:37
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG1106150-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	2.7		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 18:37
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG1106150-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/12/18 18:37
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG1106150-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/17/18 08:41
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1107199-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	34	J	ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/17/18 08:41
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1107199-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene, Total	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/17/18 08:41
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1107199-5					
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
1,4-Dioxane	ND		ug/kg	2000	720
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06-07 Batch: WG1105799-3 WG1105799-4								
Methylene chloride	104		99		70-130	5		30
1,1-Dichloroethane	117		110		70-130	6		30
Chloroform	103		100		70-130	3		30
Carbon tetrachloride	104		101		70-130	3		30
1,2-Dichloropropane	112		110		70-130	2		30
Dibromochloromethane	102		101		70-130	1		30
1,1,2-Trichloroethane	99		101		70-130	2		30
Tetrachloroethene	111		109		70-130	2		30
Chlorobenzene	102		102		70-130	0		30
Trichlorofluoromethane	98		96		70-139	2		30
1,2-Dichloroethane	99		98		70-130	1		30
1,1,1-Trichloroethane	106		103		70-130	3		30
Bromodichloromethane	100		98		70-130	2		30
trans-1,3-Dichloropropene	102		103		70-130	1		30
cis-1,3-Dichloropropene	96		96		70-130	0		30
1,1-Dichloropropene	106		100		70-130	6		30
Bromoform	90		92		70-130	2		30
1,1,2,2-Tetrachloroethane	97		101		70-130	4		30
Benzene	105		102		70-130	3		30
Toluene	108		104		70-130	4		30
Ethylbenzene	100		99		70-130	1		30
Chloromethane	180	Q	158	Q	52-130	13		30
Bromomethane	129		125		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06-07 Batch: WG1105799-3 WG1105799-4								
Vinyl chloride	148	Q	142	Q	67-130	4		30
Chloroethane	120		120		50-151	0		30
1,1-Dichloroethene	108		97		65-135	11		30
trans-1,2-Dichloroethene	104		95		70-130	9		30
Trichloroethene	102		100		70-130	2		30
1,2-Dichlorobenzene	108		106		70-130	2		30
1,3-Dichlorobenzene	111		106		70-130	5		30
1,4-Dichlorobenzene	108		106		70-130	2		30
Methyl tert butyl ether	84		82		66-130	2		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	98		99		70-130	1		30
cis-1,2-Dichloroethene	99		96		70-130	3		30
Dibromomethane	93		91		70-130	2		30
Styrene	97		98		70-130	1		30
Dichlorodifluoromethane	129		111		30-146	15		30
Acetone	206	Q	186	Q	54-140	10		30
Carbon disulfide	106		99		59-130	7		30
2-Butanone	148	Q	143	Q	70-130	3		30
Vinyl acetate	101		94		70-130	7		30
4-Methyl-2-pentanone	92		99		70-130	7		30
1,2,3-Trichloropropane	95		94		68-130	1		30
2-Hexanone	123		122		70-130	1		30
Bromochloromethane	97		96		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06-07 Batch: WG1105799-3 WG1105799-4									
2,2-Dichloropropane	110		105		70-130		5		30
1,2-Dibromoethane	95		93		70-130		2		30
1,3-Dichloropropane	98		101		69-130		3		30
1,1,1,2-Tetrachloroethane	104		104		70-130		0		30
Bromobenzene	98		96		70-130		2		30
n-Butylbenzene	118		114		70-130		3		30
sec-Butylbenzene	111		108		70-130		3		30
tert-Butylbenzene	104		102		70-130		2		30
o-Chlorotoluene	107		108		70-130		1		30
p-Chlorotoluene	106		104		70-130		2		30
1,2-Dibromo-3-chloropropane	83		90		68-130		8		30
Hexachlorobutadiene	108		105		67-130		3		30
Isopropylbenzene	98		97		70-130		1		30
p-Isopropyltoluene	107		103		70-130		4		30
Naphthalene	83		87		70-130		5		30
Acrylonitrile	107		112		70-130		5		30
n-Propylbenzene	105		102		70-130		3		30
1,2,3-Trichlorobenzene	96		96		70-130		0		30
1,2,4-Trichlorobenzene	99		100		70-130		1		30
1,3,5-Trimethylbenzene	104		103		70-130		1		30
1,2,4-Trimethylbenzene	103		102		70-130		1		30
1,4-Dioxane	73		76		65-136		4		30
p-Diethylbenzene	104		102		70-130		2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06-07 Batch: WG1105799-3 WG1105799-4								
p-Ethyltoluene	104		102		70-130	2		30
1,2,4,5-Tetramethylbenzene	96		94		70-130	2		30
Ethyl ether	106		92		67-130	14		30
trans-1,4-Dichloro-2-butene	116		119		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	91		90		70-130
Dibromofluoromethane	95		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG1105800-3 WG1105800-4								
Methylene chloride	104		99		70-130	5		30
1,1-Dichloroethane	117		110		70-130	6		30
Chloroform	103		100		70-130	3		30
Carbon tetrachloride	104		101		70-130	3		30
1,2-Dichloropropane	112		110		70-130	2		30
Dibromochloromethane	102		101		70-130	1		30
1,1,2-Trichloroethane	99		101		70-130	2		30
Tetrachloroethene	111		109		70-130	2		30
Chlorobenzene	102		102		70-130	0		30
Trichlorofluoromethane	98		96		70-139	2		30
1,2-Dichloroethane	99		98		70-130	1		30
1,1,1-Trichloroethane	106		103		70-130	3		30
Bromodichloromethane	100		98		70-130	2		30
trans-1,3-Dichloropropene	102		103		70-130	1		30
cis-1,3-Dichloropropene	96		96		70-130	0		30
1,1-Dichloropropene	106		100		70-130	6		30
Bromoform	90		92		70-130	2		30
1,1,2,2-Tetrachloroethane	97		101		70-130	4		30
Benzene	105		102		70-130	3		30
Toluene	108		104		70-130	4		30
Ethylbenzene	100		99		70-130	1		30
Chloromethane	180	Q	158	Q	52-130	13		30
Bromomethane	129		125		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG1105800-3 WG1105800-4								
Vinyl chloride	148	Q	142	Q	67-130	4		30
Chloroethane	120		120		50-151	0		30
1,1-Dichloroethene	108		97		65-135	11		30
trans-1,2-Dichloroethene	104		95		70-130	9		30
Trichloroethene	102		100		70-130	2		30
1,2-Dichlorobenzene	108		106		70-130	2		30
1,3-Dichlorobenzene	111		106		70-130	5		30
1,4-Dichlorobenzene	108		106		70-130	2		30
Methyl tert butyl ether	84		82		66-130	2		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	98		99		70-130	1		30
cis-1,2-Dichloroethene	99		96		70-130	3		30
Dibromomethane	93		91		70-130	2		30
Styrene	97		98		70-130	1		30
Dichlorodifluoromethane	129		111		30-146	15		30
Acetone	206	Q	186	Q	54-140	10		30
Carbon disulfide	106		99		59-130	7		30
2-Butanone	148	Q	143	Q	70-130	3		30
Vinyl acetate	101		94		70-130	7		30
4-Methyl-2-pentanone	92		99		70-130	7		30
1,2,3-Trichloropropane	95		94		68-130	1		30
2-Hexanone	123		122		70-130	1		30
Bromochloromethane	97		96		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG1105800-3 WG1105800-4								
2,2-Dichloropropane	110		105		70-130	5		30
1,2-Dibromoethane	95		93		70-130	2		30
1,3-Dichloropropane	98		101		69-130	3		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	98		96		70-130	2		30
n-Butylbenzene	118		114		70-130	3		30
sec-Butylbenzene	111		108		70-130	3		30
tert-Butylbenzene	104		102		70-130	2		30
o-Chlorotoluene	107		108		70-130	1		30
p-Chlorotoluene	106		104		70-130	2		30
1,2-Dibromo-3-chloropropane	83		90		68-130	8		30
Hexachlorobutadiene	108		105		67-130	3		30
Isopropylbenzene	98		97		70-130	1		30
p-Isopropyltoluene	107		103		70-130	4		30
Naphthalene	83		87		70-130	5		30
Acrylonitrile	107		112		70-130	5		30
n-Propylbenzene	105		102		70-130	3		30
1,2,3-Trichlorobenzene	96		96		70-130	0		30
1,2,4-Trichlorobenzene	99		100		70-130	1		30
1,3,5-Trimethylbenzene	104		103		70-130	1		30
1,2,4-Trimethylbenzene	103		102		70-130	1		30
1,4-Dioxane	73		76		65-136	4		30
p-Diethylbenzene	104		102		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG1105800-3 WG1105800-4								
p-Ethyltoluene	104		102		70-130	2		30
1,2,4,5-Tetramethylbenzene	96		94		70-130	2		30
Ethyl ether	106		92		67-130	14		30
trans-1,4-Dichloro-2-butene	116		119		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	91		90		70-130
Dibromofluoromethane	95		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,09-12 Batch: WG1105944-3 WG1105944-4								
Methylene chloride	86		89		70-130	3		30
1,1-Dichloroethane	95		98		70-130	3		30
Chloroform	86		89		70-130	3		30
Carbon tetrachloride	89		91		70-130	2		30
1,2-Dichloropropane	98		100		70-130	2		30
Dibromochloromethane	92		94		70-130	2		30
1,1,2-Trichloroethane	104		105		70-130	1		30
Tetrachloroethene	85		87		70-130	2		30
Chlorobenzene	91		94		70-130	3		30
Trichlorofluoromethane	74		75		70-139	1		30
1,2-Dichloroethane	98		100		70-130	2		30
1,1,1-Trichloroethane	87		89		70-130	2		30
Bromodichloromethane	89		93		70-130	4		30
trans-1,3-Dichloropropene	92		94		70-130	2		30
cis-1,3-Dichloropropene	92		94		70-130	2		30
1,1-Dichloropropene	90		91		70-130	1		30
Bromoform	90		91		70-130	1		30
1,1,2,2-Tetrachloroethane	107		106		70-130	1		30
Benzene	87		90		70-130	3		30
Toluene	93		98		70-130	5		30
Ethylbenzene	94		96		70-130	2		30
Chloromethane	114		117		52-130	3		30
Bromomethane	74		77		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,09-12 Batch: WG1105944-3 WG1105944-4								
Vinyl chloride	97		99		67-130	2		30
Chloroethane	81		82		50-151	1		30
1,1-Dichloroethene	75		62	Q	65-135	19		30
trans-1,2-Dichloroethene	84		86		70-130	2		30
Trichloroethene	84		87		70-130	4		30
1,2-Dichlorobenzene	94		97		70-130	3		30
1,3-Dichlorobenzene	93		95		70-130	2		30
1,4-Dichlorobenzene	90		93		70-130	3		30
Methyl tert butyl ether	94		92		66-130	2		30
p/m-Xylene	86		89		70-130	3		30
o-Xylene	86		89		70-130	3		30
cis-1,2-Dichloroethene	86		88		70-130	2		30
Dibromomethane	89		89		70-130	0		30
Styrene	86		88		70-130	2		30
Dichlorodifluoromethane	96		98		30-146	2		30
Acetone	223	Q	232	Q	54-140	4		30
Carbon disulfide	87		66		59-130	27		30
2-Butanone	156	Q	163	Q	70-130	4		30
Vinyl acetate	104		102		70-130	2		30
4-Methyl-2-pentanone	108		105		70-130	3		30
1,2,3-Trichloropropane	108		109		68-130	1		30
2-Hexanone	134	Q	142	Q	70-130	6		30
Bromochloromethane	85		88		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,09-12 Batch: WG1105944-3 WG1105944-4								
2,2-Dichloropropane	102		103		70-130	1		30
1,2-Dibromoethane	97		99		70-130	2		30
1,3-Dichloropropane	105		106		69-130	1		30
1,1,1,2-Tetrachloroethane	92		96		70-130	4		30
Bromobenzene	92		95		70-130	3		30
n-Butylbenzene	99		102		70-130	3		30
sec-Butylbenzene	97		100		70-130	3		30
tert-Butylbenzene	95		97		70-130	2		30
o-Chlorotoluene	103		106		70-130	3		30
p-Chlorotoluene	101		103		70-130	2		30
1,2-Dibromo-3-chloropropane	95		92		68-130	3		30
Hexachlorobutadiene	85		87		67-130	2		30
Isopropylbenzene	96		99		70-130	3		30
p-Isopropyltoluene	95		98		70-130	3		30
Naphthalene	93		94		70-130	1		30
Acrylonitrile	110		108		70-130	2		30
n-Propylbenzene	99		102		70-130	3		30
1,2,3-Trichlorobenzene	89		90		70-130	1		30
1,2,4-Trichlorobenzene	88		92		70-130	4		30
1,3,5-Trimethylbenzene	97		98		70-130	1		30
1,2,4-Trimethylbenzene	98		101		70-130	3		30
1,4-Dioxane	99		96		65-136	3		30
p-Diethylbenzene	94		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,09-12 Batch: WG1105944-3 WG1105944-4								
p-Ethyltoluene	97		100		70-130	3		30
1,2,4,5-Tetramethylbenzene	94		96		70-130	2		30
Ethyl ether	83		83		67-130	0		30
trans-1,4-Dichloro-2-butene	119		122		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		106		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	106		107		70-130
Dibromofluoromethane	93		91		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1106004-3 WG1106004-4								
Methylene chloride	85		82		70-130	4		30
1,1-Dichloroethane	89		85		70-130	5		30
Chloroform	92		89		70-130	3		30
Carbon tetrachloride	90		87		70-130	3		30
1,2-Dichloropropane	91		89		70-130	2		30
Dibromochloromethane	90		88		70-130	2		30
1,1,2-Trichloroethane	94		90		70-130	4		30
Tetrachloroethene	89		87		70-130	2		30
Chlorobenzene	86		85		70-130	1		30
Trichlorofluoromethane	84		82		70-139	2		30
1,2-Dichloroethane	92		89		70-130	3		30
1,1,1-Trichloroethane	89		86		70-130	3		30
Bromodichloromethane	91		90		70-130	1		30
trans-1,3-Dichloropropene	89		86		70-130	3		30
cis-1,3-Dichloropropene	92		88		70-130	4		30
1,1-Dichloropropene	90		86		70-130	5		30
Bromoform	89		86		70-130	3		30
1,1,2,2-Tetrachloroethane	89		87		70-130	2		30
Benzene	88		86		70-130	2		30
Toluene	86		85		70-130	1		30
Ethylbenzene	85		84		70-130	1		30
Chloromethane	80		75		52-130	6		30
Bromomethane	64		62		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1106004-3 WG1106004-4								
Vinyl chloride	84		80		67-130	5		30
Chloroethane	86		83		50-151	4		30
1,1-Dichloroethene	87		86		65-135	1		30
trans-1,2-Dichloroethene	88		86		70-130	2		30
Trichloroethene	91		87		70-130	4		30
1,2-Dichlorobenzene	88		87		70-130	1		30
1,3-Dichlorobenzene	87		87		70-130	0		30
1,4-Dichlorobenzene	86		84		70-130	2		30
Methyl tert butyl ether	94		90		66-130	4		30
p/m-Xylene	87		84		70-130	4		30
o-Xylene	89		87		70-130	2		30
cis-1,2-Dichloroethene	93		91		70-130	2		30
Dibromomethane	93		91		70-130	2		30
Styrene	89		87		70-130	2		30
Dichlorodifluoromethane	82		78		30-146	5		30
Acetone	165	Q	136		54-140	19		30
Carbon disulfide	84		81		59-130	4		30
2-Butanone	122		116		70-130	5		30
Vinyl acetate	92		90		70-130	2		30
4-Methyl-2-pentanone	88		84		70-130	5		30
1,2,3-Trichloropropane	87		84		68-130	4		30
2-Hexanone	104		90		70-130	14		30
Bromochloromethane	95		93		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1106004-3 WG1106004-4								
2,2-Dichloropropane	89		88		70-130	1		30
1,2-Dibromoethane	89		85		70-130	5		30
1,3-Dichloropropane	93		89		69-130	4		30
1,1,1,2-Tetrachloroethane	92		90		70-130	2		30
Bromobenzene	87		86		70-130	1		30
n-Butylbenzene	83		81		70-130	2		30
sec-Butylbenzene	84		83		70-130	1		30
tert-Butylbenzene	84		84		70-130	0		30
o-Chlorotoluene	86		86		70-130	0		30
p-Chlorotoluene	83		82		70-130	1		30
1,2-Dibromo-3-chloropropane	84		78		68-130	7		30
Hexachlorobutadiene	79		77		67-130	3		30
Isopropylbenzene	84		84		70-130	0		30
p-Isopropyltoluene	85		85		70-130	0		30
Naphthalene	92		88		70-130	4		30
Acrylonitrile	93		93		70-130	0		30
n-Propylbenzene	82		82		70-130	0		30
1,2,3-Trichlorobenzene	90		86		70-130	5		30
1,2,4-Trichlorobenzene	89		88		70-130	1		30
1,3,5-Trimethylbenzene	83		83		70-130	0		30
1,2,4-Trimethylbenzene	85		84		70-130	1		30
1,4-Dioxane	106		105		65-136	1		30
p-Diethylbenzene	86		85		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1106004-3 WG1106004-4								
p-Ethyltoluene	84		83		70-130	1		30
1,2,4,5-Tetramethylbenzene	86		84		70-130	2		30
Ethyl ether	96		92		67-130	4		30
trans-1,4-Dichloro-2-butene	86		81		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		93		70-130
Toluene-d8	94		95		70-130
4-Bromofluorobenzene	93		94		70-130
Dibromofluoromethane	99		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1106019-3 WG1106019-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	120		120		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	93		93		63-132	0		20
1,2-Dichloropropane	120		120		70-130	0		20
Dibromochloromethane	96		99		63-130	3		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	91		92		70-130	1		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		99		62-150	1		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	98		99		67-130	1		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	95		94		54-136	1		20
1,1,2,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	100		110		70-130	10		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	140	Q	130		64-130	7		20
Bromomethane	88		91		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1106019-3 WG1106019-4								
Vinyl chloride	130		130		55-140	0		20
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	96		95		70-130	1		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		99		70-130	1		20
Dibromomethane	97		100		70-130	3		20
1,2,3-Trichloropropane	120		120		64-130	0		20
Acrylonitrile	120		130		70-130	8		20
Styrene	135	Q	140	Q	70-130	4		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	110		120		58-148	9		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	130		130		63-138	0		20
Vinyl acetate	120		120		70-130	0		20
4-Methyl-2-pentanone	110		120		59-130	9		20
2-Hexanone	110		110		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1106019-3 WG1106019-4								
Bromochloromethane	95		94		70-130	1		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	99		100		70-130	1		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	97		100		64-130	3		20
Bromobenzene	98		97		70-130	1		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		110		70-130	10		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	93		100		41-144	7		20
Hexachlorobutadiene	71		72		63-130	1		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	95		96		70-130	1		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	84		85		70-130	1		20
1,2,4-Trichlorobenzene	87		88		70-130	1		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	98		99		70-130	1		20
1,4-Dioxane	68		68		56-162	0		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1106019-3 WG1106019-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	98		97		70-130	1		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	120		120		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	93		93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1106150-3 WG1106150-4								
Methylene chloride	75		79		70-130	5		30
1,1-Dichloroethane	104		107		70-130	3		30
Chloroform	95		99		70-130	4		30
Carbon tetrachloride	99		102		70-130	3		30
1,2-Dichloropropane	103		108		70-130	5		30
Dibromochloromethane	85		91		70-130	7		30
1,1,2-Trichloroethane	93		98		70-130	5		30
Tetrachloroethene	95		99		70-130	4		30
Chlorobenzene	92		95		70-130	3		30
Trichlorofluoromethane	125		129		70-139	3		30
1,2-Dichloroethane	96		102		70-130	6		30
1,1,1-Trichloroethane	101		104		70-130	3		30
Bromodichloromethane	97		101		70-130	4		30
trans-1,3-Dichloropropene	90		96		70-130	6		30
cis-1,3-Dichloropropene	97		103		70-130	6		30
1,1-Dichloropropene	109		112		70-130	3		30
Bromoform	83		89		70-130	7		30
1,1,1,2-Tetrachloroethane	93		98		70-130	5		30
Benzene	100		103		70-130	3		30
Toluene	89		92		70-130	3		30
Ethylbenzene	94		96		70-130	2		30
Chloromethane	106		103		52-130	3		30
Bromomethane	149	Q	148	Q	57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1106150-3 WG1106150-4								
Vinyl chloride	126		128		67-130	2		30
Chloroethane	114		114		50-151	0		30
1,1-Dichloroethene	106		122		65-135	14		30
trans-1,2-Dichloroethene	102		106		70-130	4		30
Trichloroethene	102		104		70-130	2		30
1,2-Dichlorobenzene	88		92		70-130	4		30
1,3-Dichlorobenzene	90		93		70-130	3		30
1,4-Dichlorobenzene	89		93		70-130	4		30
Methyl tert butyl ether	97		101		66-130	4		30
p/m-Xylene	94		96		70-130	2		30
o-Xylene	92		95		70-130	3		30
cis-1,2-Dichloroethene	102		104		70-130	2		30
Dibromomethane	98		104		70-130	6		30
Styrene	88		92		70-130	4		30
Dichlorodifluoromethane	120		116		30-146	3		30
Acetone	177	Q	143	Q	54-140	21		30
Carbon disulfide	100		98		59-130	2		30
2-Butanone	113		109		70-130	4		30
Vinyl acetate	99		102		70-130	3		30
4-Methyl-2-pentanone	93		96		70-130	3		30
1,2,3-Trichloropropane	92		99		68-130	7		30
2-Hexanone	94		89		70-130	5		30
Bromochloromethane	96		101		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1106150-3 WG1106150-4								
2,2-Dichloropropane	100		105		70-130	5		30
1,2-Dibromoethane	92		98		70-130	6		30
1,3-Dichloropropane	96		100		69-130	4		30
1,1,1,2-Tetrachloroethane	89		92		70-130	3		30
Bromobenzene	90		93		70-130	3		30
n-Butylbenzene	96		100		70-130	4		30
sec-Butylbenzene	96		98		70-130	2		30
tert-Butylbenzene	93		95		70-130	2		30
o-Chlorotoluene	92		95		70-130	3		30
p-Chlorotoluene	93		94		70-130	1		30
1,2-Dibromo-3-chloropropane	82		87		68-130	6		30
Hexachlorobutadiene	92		94		67-130	2		30
Isopropylbenzene	95		97		70-130	2		30
p-Isopropyltoluene	92		95		70-130	3		30
Naphthalene	83		88		70-130	6		30
Acrylonitrile	93		99		70-130	6		30
n-Propylbenzene	97		99		70-130	2		30
1,2,3-Trichlorobenzene	88		93		70-130	6		30
1,2,4-Trichlorobenzene	90		93		70-130	3		30
1,3,5-Trimethylbenzene	92		94		70-130	2		30
1,2,4-Trimethylbenzene	90		93		70-130	3		30
1,4-Dioxane	94		100		65-136	6		30
p-Diethylbenzene	93		94		70-130	1		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1106150-3 WG1106150-4								
p-Ethyltoluene	94		96		70-130	2		30
1,2,4,5-Tetramethylbenzene	87		89		70-130	2		30
Ethyl ether	106		110		67-130	4		30
trans-1,4-Dichloro-2-butene	94		98		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	97		95		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1107199-3 WG1107199-4								
Methylene chloride	90		88		70-130	2		30
1,1-Dichloroethane	96		94		70-130	2		30
Chloroform	98		96		70-130	2		30
Carbon tetrachloride	101		99		70-130	2		30
1,2-Dichloropropane	98		96		70-130	2		30
Dibromochloromethane	91		89		70-130	2		30
1,1,2-Trichloroethane	97		94		70-130	3		30
Tetrachloroethene	99		94		70-130	5		30
Chlorobenzene	92		89		70-130	3		30
Trichlorofluoromethane	100		98		70-139	2		30
1,2-Dichloroethane	95		93		70-130	2		30
1,1,1-Trichloroethane	99		97		70-130	2		30
Bromodichloromethane	97		96		70-130	1		30
trans-1,3-Dichloropropene	93		90		70-130	3		30
cis-1,3-Dichloropropene	95		94		70-130	1		30
1,1-Dichloropropene	102		98		70-130	4		30
Bromoform	85		87		70-130	2		30
1,1,2,2-Tetrachloroethane	88		88		70-130	0		30
Benzene	95		93		70-130	2		30
Toluene	92		88		70-130	4		30
Ethylbenzene	93		90		70-130	3		30
Chloromethane	97		91		52-130	6		30
Bromomethane	78		78		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1107199-3 WG1107199-4								
Vinyl chloride	102		97		67-130	5		30
Chloroethane	102		98		50-151	4		30
1,1-Dichloroethene	101		97		65-135	4		30
trans-1,2-Dichloroethene	99		94		70-130	5		30
Trichloroethene	99		97		70-130	2		30
1,2-Dichlorobenzene	90		90		70-130	0		30
1,3-Dichlorobenzene	91		89		70-130	2		30
1,4-Dichlorobenzene	88		86		70-130	2		30
Methyl tert butyl ether	96		95		66-130	1		30
p/m-Xylene	94		90		70-130	4		30
o-Xylene	95		92		70-130	3		30
cis-1,2-Dichloroethene	100		97		70-130	3		30
Dibromomethane	95		95		70-130	0		30
Styrene	93		90		70-130	3		30
Dichlorodifluoromethane	105		101		30-146	4		30
Acetone	135		108		54-140	22		30
Carbon disulfide	92		88		59-130	4		30
2-Butanone	106		107		70-130	1		30
Vinyl acetate	93		95		70-130	2		30
4-Methyl-2-pentanone	85		82		70-130	4		30
1,2,3-Trichloropropane	85		86		68-130	1		30
2-Hexanone	92		85		70-130	8		30
Bromochloromethane	100		98		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1107199-3 WG1107199-4								
2,2-Dichloropropane	102		99		70-130	3		30
1,2-Dibromoethane	88		87		70-130	1		30
1,3-Dichloropropane	95		93		69-130	2		30
1,1,1,2-Tetrachloroethane	95		92		70-130	3		30
Bromobenzene	90		88		70-130	2		30
n-Butylbenzene	94		90		70-130	4		30
sec-Butylbenzene	94		92		70-130	2		30
tert-Butylbenzene	93		90		70-130	3		30
o-Chlorotoluene	93		70		70-130	28		30
p-Chlorotoluene	88		89		70-130	1		30
1,2-Dibromo-3-chloropropane	78		78		68-130	0		30
Hexachlorobutadiene	90		88		67-130	2		30
Isopropylbenzene	92		90		70-130	2		30
p-Isopropyltoluene	95		92		70-130	3		30
Naphthalene	89		91		70-130	2		30
Acrylonitrile	95		97		70-130	2		30
n-Propylbenzene	92		89		70-130	3		30
1,2,3-Trichlorobenzene	91		90		70-130	1		30
1,2,4-Trichlorobenzene	92		91		70-130	1		30
1,3,5-Trimethylbenzene	91		89		70-130	2		30
1,2,4-Trimethylbenzene	92		90		70-130	2		30
1,4-Dioxane	100		103		65-136	3		30
p-Diethylbenzene	95		92		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1107199-3 WG1107199-4								
p-Ethyltoluene	92		89		70-130	3		30
1,2,4,5-Tetramethylbenzene	92		89		70-130	3		30
Ethyl ether	98		96		67-130	2		30
trans-1,4-Dichloro-2-butene	84		84		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	98		98		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1107199-6 WG1107199-7 QC Sample: L1812210-05 Client ID: RSB10_9-10												
Methylene chloride	ND	37000	34000	91		34000	93		70-130	2		30
1,1-Dichloroethane	ND	37000	37000	101		37000	101		70-130	0		30
Chloroform	ND	37000	37000	99		39000	104		70-130	6		30
Carbon tetrachloride	ND	37000	42000	112		41000	111		70-130	1		30
1,2-Dichloropropane	ND	37000	39000	106		39000	104		70-130	2		30
Dibromochloromethane	ND	37000	38000	102		38000	102		70-130	0		30
1,1,2-Trichloroethane	ND	37000	49000	131	Q	49000	133	Q	70-130	1		30
Tetrachloroethene	ND	37000	40000	108		40000	107		70-130	2		30
Chlorobenzene	ND	37000	37000	99		37000	99		70-130	0		30
Trichlorofluoromethane	ND	37000	39000	104		40000	107		70-139	3		30
1,2-Dichloroethane	ND	37000	37000	99		36000	96		70-130	2		30
1,1,1-Trichloroethane	ND	37000	40000	108		40000	108		70-130	1		30
Bromodichloromethane	ND	37000	39000	105		38000	104		70-130	1		30
trans-1,3-Dichloropropene	ND	37000	38000	103		38000	103		70-130	1		30
cis-1,3-Dichloropropene	ND	37000	40000	108		39000	106		70-130	2		30
1,1-Dichloropropene	ND	37000	42000	113		42000	112		70-130	1		30
Bromoform	ND	37000	36000	97		36000	98		70-130	1		30
1,1,2,2-Tetrachloroethane	ND	37000	35000	94		35000	94		70-130	0		30
Benzene	ND	37000	38000	102		38000	102		70-130	0		30
Toluene	ND	37000	37000	99		37000	99		70-130	1		30
Ethylbenzene	770	37000	39000	102		38000	101		70-130	1		30
Chloromethane	ND	37000	35000	94		35000	94		52-130	0		30
Bromomethane	ND	37000	31000	82		34000	93		57-147	12		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1107199-6 WG1107199-7 QC Sample: L1812210-05 Client ID: RSB10_9-10												
Vinyl chloride	ND	37000	40000	107		40000	108		67-130	1		30
Chloroethane	ND	37000	29000	77		29000	77		50-151	0		30
1,1-Dichloroethene	ND	37000	40000	108		41000	111		65-135	3		30
trans-1,2-Dichloroethene	ND	37000	38000	104		39000	106		70-130	2		30
Trichloroethene	ND	37000	41000	110		40000	109		70-130	1		30
1,2-Dichlorobenzene	ND	37000	36000	98		36000	98		70-130	1		30
1,3-Dichlorobenzene	ND	37000	37000	99		37000	99		70-130	1		30
1,4-Dichlorobenzene	ND	37000	35000	94		35000	94		70-130	0		30
Methyl tert butyl ether	ND	37000	37000	100		38000	102		66-130	2		30
p/m-Xylene	1700	75000	78000	101		77000	100		70-130	1		30
o-Xylene	390J	75000	78000	104		77000	103		70-130	1		30
cis-1,2-Dichloroethene	ND	37000	39000	105		39000	106		70-130	1		30
Dibromomethane	ND	37000	38000	103		38000	102		70-130	1		30
Styrene	ND	75000	78000	104		78000	104		70-130	1		30
Dichlorodifluoromethane	ND	37000	39000	104		39000	105		30-146	1		30
Acetone	ND	37000	80000	216	Q	71000	193	Q	54-140	11		30
Carbon disulfide	ND	37000	37000	99		37000	101		59-130	2		30
2-Butanone	ND	37000	61000	165	Q	56000	150	Q	70-130	9		30
Vinyl acetate	ND	37000	39000	105		38000	103		70-130	2		30
4-Methyl-2-pentanone	ND	37000	38000	104		38000	103		70-130	1		30
1,2,3-Trichloropropane	ND	37000	33000	90		35000	96		68-130	6		30
2-Hexanone	ND	37000	43000	116		40000	107		70-130	8		30
Bromochloromethane	ND	37000	37000	100		38000	101		70-130	1		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1107199-6 WG1107199-7 QC Sample: L1812210-05 Client ID: RSB10_9-10												
2,2-Dichloropropane	ND	37000	41000	110		41000	110		70-130	0		30
1,2-Dibromoethane	ND	37000	36000	96		36000	96		70-130	0		30
1,3-Dichloropropane	ND	37000	37000	100		37000	100		69-130	0		30
1,1,1,2-Tetrachloroethane	ND	37000	38000	104		38000	102		70-130	2		30
Bromobenzene	ND	37000	36000	98		36000	98		70-130	1		30
n-Butylbenzene	930	37000	40000	104		39000	104		70-130	1		30
sec-Butylbenzene	490	37000	39000	104		39000	104		70-130	0		30
tert-Butylbenzene	ND	37000	38000	103		38000	104		70-130	1		30
o-Chlorotoluene	ND	37000	28000	77		29000	78		70-130	1		30
p-Chlorotoluene	ND	37000	36000	98		37000	99		70-130	1		30
1,2-Dibromo-3-chloropropane	ND	37000	35000	95		35000	95		68-130	1		30
Hexachlorobutadiene	ND	37000	38000	103		38000	104		67-130	1		30
Isopropylbenzene	1200	37000	40000	104		40000	105		70-130	0		30
p-Isopropyltoluene	260J	37000	40000	108		40000	108		70-130	0		30
Naphthalene	750J	37000	39000	106		40000	108		70-130	2		30
Acrylonitrile	ND	37000	43000	116		42000	113		70-130	3		30
n-Propylbenzene	3900	37000	41000	101		42000	102		70-130	0		30
1,2,3-Trichlorobenzene	ND	37000	37000	99		37000	100		70-130	1		30
1,2,4-Trichlorobenzene	ND	37000	38000	104		39000	104		70-130	1		30
1,3,5-Trimethylbenzene	10000	37000	46000	98		47000	100		70-130	2		30
1,2,4-Trimethylbenzene	28000	37000	64000	98		66000	102		70-130	2		30
1,4-Dioxane	ND	1900000	2100000	110		2200000	116		65-136	5		30
p-Diethylbenzene	7500	37000	47000	107		47000	108		70-130	0		30

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1107199-6 WG1107199-7 QC Sample: L1812210-05 Client ID: RSB10_9-10												
p-Ethyltoluene	16000	37000	52000	98		53000	100		70-130	2		30
1,2,4,5-Tetramethylbenzene	2200	37000	41000	104		41000	105		70-130	0		30
Ethyl ether	ND	37000	37000	99		38000	104		67-130	4		30
trans-1,4-Dichloro-2-butene	ND	37000	35000	93		34000	93		70-130	0		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	98		98		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	92		93		70-130
Toluene-d8	93		94		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01
 Client ID: RSB04_6-7
 Sample Location: NY, NY

Date Collected: 04/09/18 09:20
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 00:05
 Analyst: RC
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	64	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01

Date Collected: 04/09/18 09:20

Client ID: RSB04_6-7

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	78	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01
 Client ID: RSB04_6-7
 Sample Location: NY, NY

Date Collected: 04/09/18 09:20
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	66		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02
 Client ID: RSB04_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 09:50
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 00:31
 Analyst: RC
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02

Date Collected: 04/09/18 09:50

Client ID: RSB04_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02
 Client ID: RSB04_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 09:50
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	82		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03
 Client ID: RSB04_10-11
 Sample Location: NY, NY

Date Collected: 04/09/18 09:55
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 00:57
 Analyst: RC
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03

Date Collected: 04/09/18 09:55

Client ID: RSB04_10-11

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	22.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	31.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03
 Client ID: RSB04_10-11
 Sample Location: NY, NY

Date Collected: 04/09/18 09:55
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	63		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04
 Client ID: RSB10_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 11:30
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 03:06
 Analyst: RC
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04

Date Collected: 04/09/18 11:30

Client ID: RSB10_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04
Client ID: RSB10_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 11:30
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	76		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05
 Client ID: RSB10_9-10
 Sample Location: NY, NY

Date Collected: 04/09/18 11:11
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 01:23
 Analyst: RC
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05

Date Collected: 04/09/18 11:11

Client ID: RSB10_9-10

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	79.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05
 Client ID: RSB10_9-10
 Sample Location: NY, NY

Date Collected: 04/09/18 11:11
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	64		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06
 Client ID: RSB11_8-9
 Sample Location: NY, NY

Date Collected: 04/09/18 13:45
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 03:58
 Analyst: RC
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	42	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	24	J	ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	1600		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	170	J	ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06

Date Collected: 04/09/18 13:45

Client ID: RSB11_8-9

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	61	J	ug/kg	210	20.	1
Phenanthrene	110	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	37	J	ug/kg	120	21.	1
Biphenyl	58	J	ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	7200		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06
Client ID: RSB11_8-9
Sample Location: NY, NY

Date Collected: 04/09/18 13:45
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	69		18-120

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07 D

Date Collected: 04/09/18 14:05

Client ID: RSB11_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 04/11/18 08:43

Analytical Date: 04/12/18 20:08

Analyst: RC

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	56	J	ug/kg	330	42.	2
1,2,4-Trichlorobenzene	ND		ug/kg	410	47.	2
Hexachlorobenzene	ND		ug/kg	240	46.	2
Bis(2-chloroethyl)ether	ND		ug/kg	370	55.	2
2-Chloronaphthalene	ND		ug/kg	410	40.	2
1,2-Dichlorobenzene	ND		ug/kg	410	73.	2
1,3-Dichlorobenzene	ND		ug/kg	410	70.	2
1,4-Dichlorobenzene	ND		ug/kg	410	71.	2
3,3'-Dichlorobenzidine	ND		ug/kg	410	110	2
2,4-Dinitrotoluene	ND		ug/kg	410	82.	2
2,6-Dinitrotoluene	ND		ug/kg	410	70.	2
Fluoranthene	ND		ug/kg	240	47.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	410	44.	2
4-Bromophenyl phenyl ether	ND		ug/kg	410	62.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	490	70.	2
Bis(2-chloroethoxy)methane	ND		ug/kg	440	41.	2
Hexachlorobutadiene	ND		ug/kg	410	60.	2
Hexachlorocyclopentadiene	ND		ug/kg	1200	370	2
Hexachloroethane	ND		ug/kg	330	66.	2
Isophorone	ND		ug/kg	370	53.	2
Naphthalene	4000		ug/kg	410	50.	2
Nitrobenzene	ND		ug/kg	370	60.	2
NDPA/DPA	ND		ug/kg	330	46.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	410	63.	2
Bis(2-ethylhexyl)phthalate	ND		ug/kg	410	140	2
Butyl benzyl phthalate	ND		ug/kg	410	100	2
Di-n-butylphthalate	ND		ug/kg	410	78.	2
Di-n-octylphthalate	ND		ug/kg	410	140	2

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07 D

Date Collected: 04/09/18 14:05

Client ID: RSB11_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	410	38.	2
Dimethyl phthalate	ND		ug/kg	410	86.	2
Benzo(a)anthracene	ND		ug/kg	240	46.	2
Benzo(a)pyrene	ND		ug/kg	330	100	2
Benzo(b)fluoranthene	ND		ug/kg	240	69.	2
Benzo(k)fluoranthene	ND		ug/kg	240	65.	2
Chrysene	ND		ug/kg	240	42.	2
Acenaphthylene	ND		ug/kg	330	63.	2
Anthracene	ND		ug/kg	240	80.	2
Benzo(ghi)perylene	ND		ug/kg	330	48.	2
Fluorene	92	J	ug/kg	410	40.	2
Phenanthrene	170	J	ug/kg	240	50.	2
Dibenzo(a,h)anthracene	ND		ug/kg	240	47.	2
Indeno(1,2,3-cd)pyrene	ND		ug/kg	330	57.	2
Pyrene	46	J	ug/kg	240	41.	2
Biphenyl	100	J	ug/kg	930	95.	2
4-Chloroaniline	ND		ug/kg	410	74.	2
2-Nitroaniline	ND		ug/kg	410	79.	2
3-Nitroaniline	ND		ug/kg	410	77.	2
4-Nitroaniline	ND		ug/kg	410	170	2
Dibenzofuran	ND		ug/kg	410	39.	2
2-Methylnaphthalene	16000		ug/kg	490	49.	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	410	43.	2
Acetophenone	ND		ug/kg	410	51.	2
2,4,6-Trichlorophenol	ND		ug/kg	240	78.	2
p-Chloro-m-cresol	ND		ug/kg	410	61.	2
2-Chlorophenol	ND		ug/kg	410	48.	2
2,4-Dichlorophenol	ND		ug/kg	370	66.	2
2,4-Dimethylphenol	ND		ug/kg	410	130	2
2-Nitrophenol	ND		ug/kg	880	150	2
4-Nitrophenol	ND		ug/kg	570	170	2
2,4-Dinitrophenol	ND		ug/kg	2000	190	2
4,6-Dinitro-o-cresol	ND		ug/kg	1100	200	2
Pentachlorophenol	ND		ug/kg	330	90.	2
Phenol	ND		ug/kg	410	62.	2
2-Methylphenol	ND		ug/kg	410	63.	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	590	64.	2

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07 D
 Client ID: RSB11_5-6
 Sample Location: NY, NY

Date Collected: 04/09/18 14:05
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	410	78.	2
Benzoic Acid	ND		ug/kg	1300	410	2
Benzyl Alcohol	ND		ug/kg	410	120	2
Carbazole	ND		ug/kg	410	40.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	95		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	21	Q	23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	61		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08
 Client ID: RSB11_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 14:10
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 02:40
 Analyst: RC
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08
 Client ID: RSB11_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 14:10
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	31.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08
Client ID: RSB11_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 14:10
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	79		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09
Client ID: RSB12_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 15:18
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/12/18 05:23
Analyst: TT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09

Date Collected: 04/09/18 15:18

Client ID: RSB12_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09
 Client ID: RSB12_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 15:18
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	68		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10
 Client ID: RSB12_7-8
 Sample Location: NY, NY

Date Collected: 04/09/18 14:54
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 04:31
 Analyst: TT
 Percent Solids: 72%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	ND		ug/kg	130	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	180	J	ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	77.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	76.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10

Date Collected: 04/09/18 14:54

Client ID: RSB12_7-8

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	38.	1
Benzo(k)fluoranthene	ND		ug/kg	130	36.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	44.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	510	52.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	93.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	390		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	33.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	74.	1
2-Nitrophenol	ND		ug/kg	480	84.	1
4-Nitrophenol	ND		ug/kg	310	91.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	580	110	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10
Client ID: RSB12_7-8
Sample Location: NY, NY

Date Collected: 04/09/18 14:54
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	43.	1
Benzoic Acid	ND		ug/kg	720	230	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	54		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11
 Client ID: RSB12_5-6
 Sample Location: NY, NY

Date Collected: 04/09/18 15:05
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 04:57
 Analyst: TT
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	680		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11

Date Collected: 04/09/18 15:05

Client ID: RSB12_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-11

Date Collected: 04/09/18 15:05

Client ID: RSB12_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	23		10-136
4-Terphenyl-d14	52		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-12
 Client ID: RSDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 06:14
 Analyst: TT
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 08:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-12
 Client ID: RSDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-12
 Client ID: RSBDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	67		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/18 21:56
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1105472-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/18 21:56
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1105472-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 04/11/18 21:56
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1105472-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	74		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1105472-2 WG1105472-3								
Acenaphthene	61		78		31-137	24		50
1,2,4-Trichlorobenzene	63		75		38-107	17		50
Hexachlorobenzene	61		81		40-140	28		50
Bis(2-chloroethyl)ether	60		74		40-140	21		50
2-Chloronaphthalene	61		78		40-140	24		50
1,2-Dichlorobenzene	60		74		40-140	21		50
1,3-Dichlorobenzene	58		74		40-140	24		50
1,4-Dichlorobenzene	58		72		28-104	22		50
3,3'-Dichlorobenzidine	52		66		40-140	24		50
2,4-Dinitrotoluene	75		101		40-132	30		50
2,6-Dinitrotoluene	74		96		40-140	26		50
Fluoranthene	65		82		40-140	23		50
4-Chlorophenyl phenyl ether	62		80		40-140	25		50
4-Bromophenyl phenyl ether	60		81		40-140	30		50
Bis(2-chloroisopropyl)ether	54		74		40-140	31		50
Bis(2-chloroethoxy)methane	63		77		40-117	20		50
Hexachlorobutadiene	64		77		40-140	18		50
Hexachlorocyclopentadiene	69		87		40-140	23		50
Hexachloroethane	59		76		40-140	25		50
Isophorone	59		77		40-140	26		50
Naphthalene	61		75		40-140	21		50
Nitrobenzene	62		83		40-140	29		50
NDPA/DPA	63		83		36-157	27		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1105472-2 WG1105472-3								
n-Nitrosodi-n-propylamine	58		78		32-121	29		50
Bis(2-ethylhexyl)phthalate	69		92		40-140	29		50
Butyl benzyl phthalate	71		90		40-140	24		50
Di-n-butylphthalate	65		87		40-140	29		50
Di-n-octylphthalate	66		90		40-140	31		50
Diethyl phthalate	64		83		40-140	26		50
Dimethyl phthalate	65		82		40-140	23		50
Benzo(a)anthracene	62		86		40-140	32		50
Benzo(a)pyrene	65		85		40-140	27		50
Benzo(b)fluoranthene	61		76		40-140	22		50
Benzo(k)fluoranthene	66		92		40-140	33		50
Chrysene	62		78		40-140	23		50
Acenaphthylene	66		84		40-140	24		50
Anthracene	63		84		40-140	29		50
Benzo(ghi)perylene	63		83		40-140	27		50
Fluorene	64		82		40-140	25		50
Phenanthrene	61		79		40-140	26		50
Dibenzo(a,h)anthracene	64		84		40-140	27		50
Indeno(1,2,3-cd)pyrene	64		85		40-140	28		50
Pyrene	63		79		35-142	23		50
Biphenyl	65		80		54-104	21		50
4-Chloroaniline	65		82		40-140	23		50
2-Nitroaniline	74		95		47-134	25		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1105472-2 WG1105472-3								
3-Nitroaniline	60		74		26-129	21		50
4-Nitroaniline	65		83		41-125	24		50
Dibenzofuran	63		80		40-140	24		50
2-Methylnaphthalene	62		78		40-140	23		50
1,2,4,5-Tetrachlorobenzene	66		81		40-117	20		50
Acetophenone	61		79		14-144	26		50
2,4,6-Trichlorophenol	70		88		30-130	23		50
p-Chloro-m-cresol	70		89		26-103	24		50
2-Chlorophenol	67		81		25-102	19		50
2,4-Dichlorophenol	70		86		30-130	21		50
2,4-Dimethylphenol	73		88		30-130	19		50
2-Nitrophenol	74		99		30-130	29		50
4-Nitrophenol	78		103		11-114	28		50
2,4-Dinitrophenol	59		77		4-130	26		50
4,6-Dinitro-o-cresol	76		101		10-130	28		50
Pentachlorophenol	48		64		17-109	29		50
Phenol	67		83		26-90	21		50
2-Methylphenol	62		83		30-130.	29		50
3-Methylphenol/4-Methylphenol	68		89		30-130	27		50
2,4,5-Trichlorophenol	71		90		30-130	24		50
Benzoic Acid	33		38		10-110	14		50
Benzyl Alcohol	65		83		40-140	24		50
Carbazole	60		82		54-128	31		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1105472-2 WG1105472-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	70		83		25-120
Phenol-d6	69		85		10-120
Nitrobenzene-d5	59		75		23-120
2-Fluorobiphenyl	60		75		30-120
2,4,6-Tribromophenol	73		95		10-136
4-Terphenyl-d14	63		77		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1105472-4 WG1105472-5 QC Sample: L1812210-05 Client ID: RSB10_9-10												
Acenaphthene	ND	1690	990	59		1100	65		31-137	11		50
1,2,4-Trichlorobenzene	ND	1690	970	57		1100	65		38-107	13		50
Hexachlorobenzene	ND	1690	1000	59		1100	65		40-140	10		50
Bis(2-chloroethyl)ether	ND	1690	940	56		1100	65		40-140	16		50
2-Chloronaphthalene	ND	1690	1000	59		1000	59		40-140	0		50
1,2-Dichlorobenzene	ND	1690	960	57		1100	65		40-140	14		50
1,3-Dichlorobenzene	ND	1690	960	57		1100	65		40-140	14		50
1,4-Dichlorobenzene	ND	1690	950	56		1100	65		28-104	15		50
3,3'-Dichlorobenzidine	ND	1690	740	44		880	52		40-140	17		50
2,4-Dinitrotoluene	ND	1690	1200	71		1300	76		40-132	8		50
2,6-Dinitrotoluene	ND	1690	1200	71		1200	70		40-140	0		50
Fluoranthene	ND	1690	1000	59		1100	65		40-140	10		50
4-Chlorophenyl phenyl ether	ND	1690	1000	59		1100	65		40-140	10		50
4-Bromophenyl phenyl ether	ND	1690	1000	59		1100	65		40-140	10		50
Bis(2-chloroisopropyl)ether	ND	1690	900	53		960	56		40-140	6		50
Bis(2-chloroethoxy)methane	ND	1690	940	56		1100	65		40-117	16		50
Hexachlorobutadiene	ND	1690	1000	59		1200	70		40-140	18		50
Hexachlorocyclopentadiene	ND	1690	1100	65		1200	70		40-140	9		50
Hexachloroethane	ND	1690	1000	59		1100	65		40-140	10		50
Isophorone	ND	1690	930	55		1000	59		40-140	7		50
Naphthalene	ND	1690	1000	59		1100	65		40-140	10		50
Nitrobenzene	ND	1690	1000	59		1100	65		40-140	10		50
NDPA/DPA	ND	1690	1000	59		1100	65		36-157	10		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1105472-4 WG1105472-5 QC Sample: L1812210-05 Client ID: RSB10_9-10												
n-Nitrosodi-n-propylamine	ND	1690	970	57		1000	59		32-121	3		50
Bis(2-ethylhexyl)phthalate	ND	1690	1100	65		1200	70		40-140	9		50
Butyl benzyl phthalate	ND	1690	1100	65		1100	65		40-140	0		50
Di-n-butylphthalate	ND	1690	1100	65		1200	70		40-140	9		50
Di-n-octylphthalate	ND	1690	1100	65		1100	65		40-140	0		50
Diethyl phthalate	ND	1690	1000	59		1100	65		40-140	10		50
Dimethyl phthalate	ND	1690	1000	59		1000	59		40-140	0		50
Benzo(a)anthracene	ND	1690	960	57		1000	59		40-140	4		50
Benzo(a)pyrene	ND	1690	1000	59		1100	65		40-140	10		50
Benzo(b)fluoranthene	ND	1690	940	56		1000	59		40-140	6		50
Benzo(k)fluoranthene	ND	1690	1000	59		1100	65		40-140	10		50
Chrysene	ND	1690	960	57		1000	59		40-140	4		50
Acenaphthylene	ND	1690	1100	65		1100	65		40-140	0		50
Anthracene	ND	1690	1000	59		1100	65		40-140	10		50
Benzo(ghi)perylene	ND	1690	900	53		1100	65		40-140	20		50
Fluorene	ND	1690	1000	59		1100	65		40-140	10		50
Phenanthrene	ND	1690	980	58		1100	65		40-140	12		50
Dibenzo(a,h)anthracene	ND	1690	930	55		1100	65		40-140	17		50
Indeno(1,2,3-cd)pyrene	ND	1690	950	56		1100	65		40-140	15		50
Pyrene	ND	1690	960	57		1100	65		35-142	14		50
Biphenyl	ND	1690	1000	59		1100	65		54-104	10		50
4-Chloroaniline	ND	1690	1000	59		1200	70		40-140	18		50
2-Nitroaniline	ND	1690	1200	71		1200	70		47-134	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1105472-4 WG1105472-5 QC Sample: L1812210-05 Client ID: RSB10_9-10												
3-Nitroaniline	ND	1690	890	53		1100	65		26-129	21		50
4-Nitroaniline	ND	1690	960	57		1100	65		41-125	14		50
Dibenzofuran	ND	1690	1000	59		1100	65		40-140	10		50
2-Methylnaphthalene	ND	1690	1000	59		1100	65		40-140	10		50
1,2,4,5-Tetrachlorobenzene	ND	1690	1100	65		1100	65		40-117	0		50
Acetophenone	ND	1690	1000	59		1100	65		14-144	10		50
2,4,6-Trichlorophenol	ND	1690	1100	65		1200	70		30-130	9		50
p-Chloro-m-cresol	ND	1690	1100	65		1100	65		26-103	0		50
2-Chlorophenol	ND	1690	1000	59		1200	70		25-102	18		50
2,4-Dichlorophenol	ND	1690	1100	65		1200	70		30-130	9		50
2,4-Dimethylphenol	ND	1690	1000	59		1200	70		30-130	18		50
2-Nitrophenol	ND	1690	1200	71		1300	76		30-130	8		50
4-Nitrophenol	ND	1690	1200	71		1300	76		11-114	8		50
2,4-Dinitrophenol	ND	1690	460J	27		530J	31		4-130	14		50
4,6-Dinitro-o-cresol	ND	1690	1100	65		1200	70		10-130	9		50
Pentachlorophenol	ND	1690	820	49		900	53		17-109	9		50
Phenol	ND	1690	1000	59		1200	70		26-90	18		50
2-Methylphenol	ND	1690	980	58		1100	65		30-130.	12		50
3-Methylphenol/4-Methylphenol	ND	1690	1000	59		1200	70		30-130	18		50
2,4,5-Trichlorophenol	ND	1690	1100	65		1200	70		30-130	9		50
Benzoic Acid	ND	1690	ND	0	Q	ND	0	Q	10-110	NC		50
Benzyl Alcohol	ND	1690	990	59		1100	65		40-140	11		50
Carbazole	ND	1690	970	57		1100	65		54-128	13		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1105472-4 WG1105472-5 QC Sample: L1812210-05 Client ID: RSB10_9-10												

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	70		77		10-136
2-Fluorobiphenyl	57		58		30-120
2-Fluorophenol	61		71		25-120
4-Terphenyl-d14	54		58		18-120
Nitrobenzene-d5	57		61		23-120
Phenol-d6	60		70		10-120

PCBS

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01
 Client ID: RSB04_6-7
 Sample Location: NY, NY

Date Collected: 04/09/18 09:20
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 19:11
 Analyst: WR
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 13:13
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.4	4.36	1	A
Aroclor 1221	ND		ug/kg	38.4	5.85	1	A
Aroclor 1232	ND		ug/kg	38.4	3.78	1	A
Aroclor 1242	ND		ug/kg	38.4	4.70	1	A
Aroclor 1248	ND		ug/kg	38.4	4.31	1	A
Aroclor 1254	ND		ug/kg	38.4	3.14	1	A
Aroclor 1260	ND		ug/kg	38.4	4.01	1	A
Aroclor 1262	ND		ug/kg	38.4	3.16	1	A
Aroclor 1268	ND		ug/kg	38.4	2.72	1	A
PCBs, Total	ND		ug/kg	38.4	2.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	110		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02
Client ID: RSB04_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 09:50
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/12/18 17:43
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 13:13
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	4.11	1	A
Aroclor 1221	ND		ug/kg	36.2	5.51	1	A
Aroclor 1232	ND		ug/kg	36.2	3.56	1	A
Aroclor 1242	ND		ug/kg	36.2	4.43	1	A
Aroclor 1248	ND		ug/kg	36.2	4.06	1	A
Aroclor 1254	30.6	J	ug/kg	36.2	2.96	1	B
Aroclor 1260	ND		ug/kg	36.2	3.78	1	A
Aroclor 1262	ND		ug/kg	36.2	2.98	1	A
Aroclor 1268	ND		ug/kg	36.2	2.56	1	A
PCBs, Total	30.6	J	ug/kg	36.2	2.56	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03
 Client ID: RSB04_10-11
 Sample Location: NY, NY

Date Collected: 04/09/18 09:55
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/12/18 17:56
 Analyst: HT
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 13:13
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.8	4.63	1	A
Aroclor 1221	ND		ug/kg	40.8	6.21	1	A
Aroclor 1232	ND		ug/kg	40.8	4.02	1	A
Aroclor 1242	ND		ug/kg	40.8	5.00	1	A
Aroclor 1248	ND		ug/kg	40.8	4.58	1	A
Aroclor 1254	ND		ug/kg	40.8	3.33	1	A
Aroclor 1260	ND		ug/kg	40.8	4.26	1	A
Aroclor 1262	ND		ug/kg	40.8	3.35	1	A
Aroclor 1268	ND		ug/kg	40.8	2.89	1	A
PCBs, Total	ND		ug/kg	40.8	2.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	108		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04
Client ID: RSB10_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 11:30
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/12/18 18:08
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 13:13
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	4.16	1	A
Aroclor 1221	ND		ug/kg	36.7	5.59	1	A
Aroclor 1232	ND		ug/kg	36.7	3.61	1	A
Aroclor 1242	ND		ug/kg	36.7	4.49	1	A
Aroclor 1248	ND		ug/kg	36.7	4.12	1	A
Aroclor 1254	ND		ug/kg	36.7	3.00	1	A
Aroclor 1260	ND		ug/kg	36.7	3.83	1	A
Aroclor 1262	ND		ug/kg	36.7	3.02	1	A
Aroclor 1268	ND		ug/kg	36.7	2.60	1	A
PCBs, Total	ND		ug/kg	36.7	2.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05
 Client ID: RSB10_9-10
 Sample Location: NY, NY

Date Collected: 04/09/18 11:11
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/12/18 18:20
 Analyst: HT
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 13:13
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.6	4.72	1	A
Aroclor 1221	ND		ug/kg	41.6	6.34	1	A
Aroclor 1232	ND		ug/kg	41.6	4.10	1	A
Aroclor 1242	ND		ug/kg	41.6	5.10	1	A
Aroclor 1248	ND		ug/kg	41.6	4.67	1	A
Aroclor 1254	ND		ug/kg	41.6	3.40	1	A
Aroclor 1260	ND		ug/kg	41.6	4.35	1	A
Aroclor 1262	ND		ug/kg	41.6	3.42	1	A
Aroclor 1268	ND		ug/kg	41.6	2.95	1	A
PCBs, Total	ND		ug/kg	41.6	2.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06
 Client ID: RSB11_8-9
 Sample Location: NY, NY

Date Collected: 04/09/18 13:45
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 19:23
 Analyst: WR
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 13:13
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.5	4.60	1	A
Aroclor 1221	ND		ug/kg	40.5	6.17	1	A
Aroclor 1232	ND		ug/kg	40.5	3.99	1	A
Aroclor 1242	ND		ug/kg	40.5	4.96	1	A
Aroclor 1248	ND		ug/kg	40.5	4.55	1	A
Aroclor 1254	ND		ug/kg	40.5	3.31	1	A
Aroclor 1260	ND		ug/kg	40.5	4.23	1	A
Aroclor 1262	ND		ug/kg	40.5	3.33	1	A
Aroclor 1268	ND		ug/kg	40.5	2.87	1	A
PCBs, Total	ND		ug/kg	40.5	2.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07
Client ID: RSB11_5-6
Sample Location: NY, NY

Date Collected: 04/09/18 14:05
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/12/18 19:10
Analyst: HT
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 13:13
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.9	4.53	1	A
Aroclor 1221	ND		ug/kg	39.9	6.08	1	A
Aroclor 1232	ND		ug/kg	39.9	3.93	1	A
Aroclor 1242	ND		ug/kg	39.9	4.89	1	A
Aroclor 1248	ND		ug/kg	39.9	4.48	1	A
Aroclor 1254	ND		ug/kg	39.9	3.26	1	A
Aroclor 1260	ND		ug/kg	39.9	4.17	1	A
Aroclor 1262	ND		ug/kg	39.9	3.28	1	A
Aroclor 1268	ND		ug/kg	39.9	2.83	1	A
PCBs, Total	ND		ug/kg	39.9	2.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	105		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08
 Client ID: RSB11_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 14:10
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/12/18 19:22
 Analyst: HT
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 13:13
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.6	4.37	1	A
Aroclor 1221	ND		ug/kg	38.6	5.87	1	A
Aroclor 1232	ND		ug/kg	38.6	3.80	1	A
Aroclor 1242	ND		ug/kg	38.6	4.72	1	A
Aroclor 1248	ND		ug/kg	38.6	4.33	1	A
Aroclor 1254	ND		ug/kg	38.6	3.15	1	A
Aroclor 1260	ND		ug/kg	38.6	4.03	1	A
Aroclor 1262	ND		ug/kg	38.6	3.17	1	A
Aroclor 1268	ND		ug/kg	38.6	2.73	1	A
PCBs, Total	ND		ug/kg	38.6	2.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09
 Client ID: RSB12_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 15:18
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/12/18 19:35
 Analyst: HT
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 13:13
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	4.16	1	A
Aroclor 1221	ND		ug/kg	36.7	5.59	1	A
Aroclor 1232	ND		ug/kg	36.7	3.61	1	A
Aroclor 1242	ND		ug/kg	36.7	4.50	1	A
Aroclor 1248	ND		ug/kg	36.7	4.12	1	A
Aroclor 1254	ND		ug/kg	36.7	3.00	1	A
Aroclor 1260	ND		ug/kg	36.7	3.84	1	A
Aroclor 1262	ND		ug/kg	36.7	3.02	1	A
Aroclor 1268	ND		ug/kg	36.7	2.60	1	A
PCBs, Total	ND		ug/kg	36.7	2.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10
 Client ID: RSB12_7-8
 Sample Location: NY, NY

Date Collected: 04/09/18 14:54
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/12/18 19:47
 Analyst: HT
 Percent Solids: 72%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 13:13
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	45.3	5.14	1	A
Aroclor 1221	ND		ug/kg	45.3	6.89	1	A
Aroclor 1232	ND		ug/kg	45.3	4.46	1	A
Aroclor 1242	ND		ug/kg	45.3	5.54	1	A
Aroclor 1248	ND		ug/kg	45.3	5.08	1	A
Aroclor 1254	ND		ug/kg	45.3	3.70	1	A
Aroclor 1260	ND		ug/kg	45.3	4.73	1	A
Aroclor 1262	ND		ug/kg	45.3	3.72	1	A
Aroclor 1268	ND		ug/kg	45.3	3.21	1	A
PCBs, Total	ND		ug/kg	45.3	3.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11
 Client ID: RSB12_5-6
 Sample Location: NY, NY

Date Collected: 04/09/18 15:05
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 19:36
 Analyst: WR
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 13:23
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.2	4.78	1	A
Aroclor 1221	ND		ug/kg	42.2	6.42	1	A
Aroclor 1232	ND		ug/kg	42.2	4.15	1	A
Aroclor 1242	ND		ug/kg	42.2	5.16	1	A
Aroclor 1248	ND		ug/kg	42.2	4.73	1	A
Aroclor 1254	ND		ug/kg	42.2	3.44	1	A
Aroclor 1260	ND		ug/kg	42.2	4.40	1	A
Aroclor 1262	ND		ug/kg	42.2	3.47	1	A
Aroclor 1268	ND		ug/kg	42.2	2.99	1	A
PCBs, Total	ND		ug/kg	42.2	2.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-12
Client ID: RSBDUP01_040918
Sample Location: NY, NY

Date Collected: 04/09/18 00:00
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/12/18 20:12
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 13:23
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	4.08	1	A
Aroclor 1221	ND		ug/kg	36.0	5.48	1	A
Aroclor 1232	ND		ug/kg	36.0	3.54	1	A
Aroclor 1242	ND		ug/kg	36.0	4.41	1	A
Aroclor 1248	ND		ug/kg	36.0	4.04	1	A
Aroclor 1254	3.05	J	ug/kg	36.0	2.94	1	B
Aroclor 1260	ND		ug/kg	36.0	3.76	1	B
Aroclor 1262	ND		ug/kg	36.0	2.96	1	A
Aroclor 1268	ND		ug/kg	36.0	2.55	1	A
PCBs, Total	3.05	J	ug/kg	36.0	2.55	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/12/18 20:24
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 04/11/18 13:13
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-12 Batch: WG1105606-1						
Aroclor 1016	ND		ug/kg	32.3	3.67	A
Aroclor 1221	ND		ug/kg	32.3	4.92	A
Aroclor 1232	ND		ug/kg	32.3	3.18	A
Aroclor 1242	ND		ug/kg	32.3	3.96	A
Aroclor 1248	ND		ug/kg	32.3	3.63	A
Aroclor 1254	ND		ug/kg	32.3	2.64	A
Aroclor 1260	ND		ug/kg	32.3	3.38	A
Aroclor 1262	ND		ug/kg	32.3	2.66	A
Aroclor 1268	ND		ug/kg	32.3	2.29	A
PCBs, Total	ND		ug/kg	32.3	2.29	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	94		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1105606-2 WG1105606-3									
Aroclor 1016	80		79		40-140	1		50	A
Aroclor 1260	84		83		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		95		30-150	A
Decachlorobiphenyl	88		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		86		30-150	B
Decachlorobiphenyl	91		98		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1105606-4 WG1105606-5 QC Sample: L1812210-05 Client ID: RSB10_9-10													
Aroclor 1016	ND	267	205	77		208	80		40-140	1		50	A
Aroclor 1260	ND	267	198	74		208	80		40-140	5		50	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	91		95		30-150	A
Decachlorobiphenyl	74		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		89		30-150	B
Decachlorobiphenyl	90		91		30-150	B

PESTICIDES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01
 Client ID: RSB04_6-7
 Sample Location: NY, NY

Date Collected: 04/09/18 09:20
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/13/18 22:43
 Analyst: JW
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 10:09
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.365	1	A
Lindane	ND		ug/kg	0.776	0.347	1	A
Alpha-BHC	ND		ug/kg	0.776	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.706	1	A
Heptachlor	ND		ug/kg	0.931	0.417	1	A
Aldrin	ND		ug/kg	1.86	0.656	1	A
Heptachlor epoxide	ND		ug/kg	3.49	1.05	1	A
Endrin	ND		ug/kg	0.776	0.318	1	A
Endrin aldehyde	ND		ug/kg	2.33	0.815	1	A
Endrin ketone	ND		ug/kg	1.86	0.480	1	A
Dieldrin	ND		ug/kg	1.16	0.582	1	A
4,4'-DDE	ND		ug/kg	1.86	0.431	1	A
4,4'-DDD	ND		ug/kg	1.86	0.664	1	A
4,4'-DDT	ND		ug/kg	3.49	1.50	1	A
Endosulfan I	ND		ug/kg	1.86	0.440	1	A
Endosulfan II	ND		ug/kg	1.86	0.622	1	A
Endosulfan sulfate	ND		ug/kg	0.776	0.369	1	A
Methoxychlor	ND		ug/kg	3.49	1.09	1	A
Toxaphene	ND		ug/kg	34.9	9.78	1	A
cis-Chlordane	ND		ug/kg	2.33	0.649	1	A
trans-Chlordane	ND		ug/kg	2.33	0.614	1	A
Chlordane	ND		ug/kg	15.1	6.17	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-01

Date Collected: 04/09/18 09:20

Client ID: RSB04_6-7

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	B
Decachlorobiphenyl	118		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	125		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01
 Client ID: RSB04_6-7
 Sample Location: NY, NY

Date Collected: 04/09/18 09:20
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/13/18 18:09
 Analyst: SL
 Percent Solids: 83%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	20.9	J	ug/kg	197	12.4	1	B
2,4,5-T	ND		ug/kg	197	6.12	1	A
2,4,5-TP (Silvex)	ND		ug/kg	197	5.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	126		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02
 Client ID: RSB04_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 09:50
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 13:11
 Analyst: KEG
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 10:09
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.342	1	A
Lindane	ND		ug/kg	0.728	0.325	1	A
Alpha-BHC	ND		ug/kg	0.728	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.662	1	A
Heptachlor	ND		ug/kg	0.874	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.615	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.983	1	A
Endrin	ND		ug/kg	0.728	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.764	1	A
Endrin ketone	ND		ug/kg	1.75	0.450	1	A
Dieldrin	ND		ug/kg	1.09	0.546	1	A
4,4'-DDE	ND		ug/kg	1.75	0.404	1	A
4,4'-DDD	ND		ug/kg	1.75	0.623	1	A
4,4'-DDT	ND		ug/kg	3.28	1.40	1	A
Endosulfan I	ND		ug/kg	1.75	0.413	1	A
Endosulfan II	ND		ug/kg	1.75	0.584	1	A
Endosulfan sulfate	ND		ug/kg	0.728	0.346	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.17	1	A
cis-Chlordane	ND		ug/kg	2.18	0.609	1	A
trans-Chlordane	ND		ug/kg	2.18	0.577	1	A
Chlordane	ND		ug/kg	14.2	5.79	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-02

Date Collected: 04/09/18 09:50

Client ID: RSB04_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	99		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02
 Client ID: RSB04_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 09:50
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 19:11
 Analyst: SL
 Percent Solids: 90%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.6	1	A
2,4,5-T	ND		ug/kg	183	5.69	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	112		30-150	A
DCAA	111		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03
Client ID: RSB04_10-11
Sample Location: NY, NY

Date Collected: 04/09/18 09:55
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/12/18 13:23
Analyst: KEG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 10:09
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.89	0.371	1	A
Lindane	ND		ug/kg	0.789	0.352	1	A
Alpha-BHC	ND		ug/kg	0.789	0.224	1	A
Beta-BHC	ND		ug/kg	1.89	0.718	1	A
Heptachlor	ND		ug/kg	0.946	0.424	1	A
Aldrin	ND		ug/kg	1.89	0.666	1	A
Heptachlor epoxide	ND		ug/kg	3.55	1.06	1	A
Endrin	ND		ug/kg	0.789	0.323	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.828	1	A
Endrin ketone	ND		ug/kg	1.89	0.487	1	A
Dieldrin	ND		ug/kg	1.18	0.592	1	A
4,4'-DDE	ND		ug/kg	1.89	0.438	1	A
4,4'-DDD	ND		ug/kg	1.89	0.675	1	A
4,4'-DDT	ND		ug/kg	3.55	1.52	1	A
Endosulfan I	ND		ug/kg	1.89	0.447	1	A
Endosulfan II	ND		ug/kg	1.89	0.632	1	A
Endosulfan sulfate	ND		ug/kg	0.789	0.375	1	A
Methoxychlor	ND		ug/kg	3.55	1.10	1	A
Toxaphene	ND		ug/kg	35.5	9.94	1	A
cis-Chlordane	ND		ug/kg	2.37	0.659	1	A
trans-Chlordane	ND		ug/kg	2.37	0.625	1	A
Chlordane	ND		ug/kg	15.4	6.27	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03
 Client ID: RSB04_10-11
 Sample Location: NY, NY

Date Collected: 04/09/18 09:55
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	96		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03
 Client ID: RSB04_10-11
 Sample Location: NY, NY

Date Collected: 04/09/18 09:55
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 20:07
 Analyst: SL
 Percent Solids: 81%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	204	12.9	1	A
2,4,5-T	ND		ug/kg	204	6.33	1	A
2,4,5-TP (Silvex)	ND		ug/kg	204	5.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	64		30-150	A
DCAA	70		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04
Client ID: RSB10_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 11:30
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/12/18 13:36
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 10:09
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.729	0.326	1	A
Alpha-BHC	ND		ug/kg	0.729	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.875	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.616	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.984	1	A
Endrin	ND		ug/kg	0.729	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.766	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	ND		ug/kg	1.09	0.547	1	A
4,4'-DDE	ND		ug/kg	1.75	0.405	1	A
4,4'-DDD	ND		ug/kg	1.75	0.624	1	A
4,4'-DDT	ND		ug/kg	3.28	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.585	1	A
Endosulfan sulfate	ND		ug/kg	0.729	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.19	1	A
cis-Chlordane	ND		ug/kg	2.19	0.610	1	A
trans-Chlordane	ND		ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.2	5.80	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-04

Date Collected: 04/09/18 11:30

Client ID: RSB10_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	85		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04
 Client ID: RSB10_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 11:30
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 20:26
 Analyst: SL
 Percent Solids: 90%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	185	11.7	1	A
2,4,5-T	ND		ug/kg	185	5.74	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	125		30-150	A
DCAA	114		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05
Client ID: RSB10_9-10
Sample Location: NY, NY

Date Collected: 04/09/18 11:11
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/15/18 19:24
Analyst: TQ
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 10:09
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.388	1	A
Lindane	ND		ug/kg	0.825	0.369	1	A
Alpha-BHC	ND		ug/kg	0.825	0.234	1	A
Beta-BHC	ND		ug/kg	1.98	0.751	1	A
Heptachlor	ND		ug/kg	0.990	0.444	1	A
Aldrin	ND		ug/kg	1.98	0.697	1	A
Heptachlor epoxide	ND		ug/kg	3.71	1.11	1	A
Endrin	ND		ug/kg	0.825	0.338	1	A
Endrin aldehyde	ND		ug/kg	2.48	0.866	1	A
Endrin ketone	ND		ug/kg	1.98	0.510	1	A
Dieldrin	ND		ug/kg	1.24	0.619	1	A
4,4'-DDE	ND		ug/kg	1.98	0.458	1	A
4,4'-DDD	ND		ug/kg	1.98	0.706	1	A
4,4'-DDT	ND		ug/kg	3.71	1.59	1	A
Endosulfan I	ND		ug/kg	1.98	0.468	1	A
Endosulfan II	ND		ug/kg	1.98	0.662	1	A
Endosulfan sulfate	ND		ug/kg	0.825	0.393	1	A
Methoxychlor	ND		ug/kg	3.71	1.16	1	A
Toxaphene	ND		ug/kg	37.1	10.4	1	A
cis-Chlordane	ND		ug/kg	2.48	0.690	1	A
trans-Chlordane	ND		ug/kg	2.48	0.653	1	A
Chlordane	ND		ug/kg	16.1	6.56	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-05

Date Collected: 04/09/18 11:11

Client ID: RSB10_9-10

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	102		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05
 Client ID: RSB10_9-10
 Sample Location: NY, NY

Date Collected: 04/09/18 11:11
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 20:45
 Analyst: SL
 Percent Solids: 77%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	214	13.5	1	A
2,4,5-T	ND		ug/kg	214	6.64	1	A
2,4,5-TP (Silvex)	ND		ug/kg	214	5.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	84		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06
 Client ID: RSB11_8-9
 Sample Location: NY, NY

Date Collected: 04/09/18 13:45
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/14/18 05:07
 Analyst: JW
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 10:09
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.800	0.358	1	A
Alpha-BHC	ND		ug/kg	0.800	0.227	1	A
Beta-BHC	ND		ug/kg	1.92	0.728	1	A
Heptachlor	ND		ug/kg	0.960	0.430	1	A
Aldrin	ND		ug/kg	1.92	0.676	1	A
Heptachlor epoxide	ND		ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.800	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.840	1	A
Endrin ketone	ND		ug/kg	1.92	0.494	1	A
Dieldrin	ND		ug/kg	1.20	0.600	1	A
4,4'-DDE	ND		ug/kg	1.92	0.444	1	A
4,4'-DDD	ND		ug/kg	1.92	0.685	1	A
4,4'-DDT	ND		ug/kg	3.60	1.54	1	A
Endosulfan I	ND		ug/kg	1.92	0.454	1	A
Endosulfan II	ND		ug/kg	1.92	0.642	1	A
Endosulfan sulfate	ND		ug/kg	0.800	0.381	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	ND		ug/kg	2.40	0.669	1	A
trans-Chlordane	ND		ug/kg	2.40	0.634	1	A
Chlordane	ND		ug/kg	15.6	6.36	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-06

Date Collected: 04/09/18 13:45

Client ID: RSB11_8-9

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	124		30-150	B
Decachlorobiphenyl	140		30-150	B
2,4,5,6-Tetrachloro-m-xylene	645	Q	30-150	A
Decachlorobiphenyl	161	Q	30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06
 Client ID: RSB11_8-9
 Sample Location: NY, NY

Date Collected: 04/09/18 13:45
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 21:22
 Analyst: SL
 Percent Solids: 80%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	204	12.8	1	A
2,4,5-T	ND		ug/kg	204	6.32	1	A
2,4,5-TP (Silvex)	ND		ug/kg	204	5.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	112		30-150	A
DCAA	107		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07
Client ID: RSB11_5-6
Sample Location: NY, NY

Date Collected: 04/09/18 14:05
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/13/18 23:08
Analyst: JW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 10:09
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.378	1	A
Lindane	ND		ug/kg	0.804	0.359	1	A
Alpha-BHC	ND		ug/kg	0.804	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.731	1	A
Heptachlor	ND		ug/kg	0.964	0.432	1	A
Aldrin	ND		ug/kg	1.93	0.679	1	A
Heptachlor epoxide	ND		ug/kg	3.62	1.08	1	A
Endrin	ND		ug/kg	0.804	0.329	1	A
Endrin aldehyde	ND		ug/kg	2.41	0.844	1	A
Endrin ketone	ND		ug/kg	1.93	0.496	1	A
Dieldrin	ND		ug/kg	1.20	0.603	1	A
4,4'-DDE	ND		ug/kg	1.93	0.446	1	A
4,4'-DDD	ND		ug/kg	1.93	0.688	1	A
4,4'-DDT	ND		ug/kg	3.62	1.55	1	A
Endosulfan I	ND		ug/kg	1.93	0.456	1	A
Endosulfan II	ND		ug/kg	1.93	0.644	1	A
Endosulfan sulfate	ND		ug/kg	0.804	0.382	1	A
Methoxychlor	ND		ug/kg	3.62	1.12	1	A
Toxaphene	ND		ug/kg	36.2	10.1	1	A
cis-Chlordane	ND		ug/kg	2.41	0.672	1	A
trans-Chlordane	ND		ug/kg	2.41	0.636	1	A
Chlordane	ND		ug/kg	15.7	6.39	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-07

Date Collected: 04/09/18 14:05

Client ID: RSB11_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	134		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	131		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07
 Client ID: RSB11_5-6
 Sample Location: NY, NY

Date Collected: 04/09/18 14:05
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 21:41
 Analyst: SL
 Percent Solids: 81%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	205	12.9	1	A
2,4,5-T	ND		ug/kg	205	6.35	1	A
2,4,5-TP (Silvex)	ND		ug/kg	205	5.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	115		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08
Client ID: RSB11_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 14:10
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/12/18 14:14
Analyst: KEG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 10:09
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.748	0.334	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.898	0.402	1	A
Aldrin	ND		ug/kg	1.80	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.748	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.786	1	A
Endrin ketone	ND		ug/kg	1.80	0.462	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	ND		ug/kg	1.80	0.415	1	A
4,4'-DDD	ND		ug/kg	1.80	0.640	1	A
4,4'-DDT	ND		ug/kg	3.37	1.44	1	A
Endosulfan I	ND		ug/kg	1.80	0.424	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.43	1	A
cis-Chlordane	ND		ug/kg	2.24	0.626	1	A
trans-Chlordane	ND		ug/kg	2.24	0.592	1	A
Chlordane	ND		ug/kg	14.6	5.95	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-08

Date Collected: 04/09/18 14:10

Client ID: RSB11_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	100		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08
 Client ID: RSB11_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 14:10
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 22:00
 Analyst: SL
 Percent Solids: 85%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.03	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	116		30-150	A
DCAA	107		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09
Client ID: RSB12_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 15:18
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/12/18 14:26
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 10:09
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.354	1	A
Lindane	ND		ug/kg	0.752	0.336	1	A
Alpha-BHC	ND		ug/kg	0.752	0.214	1	A
Beta-BHC	ND		ug/kg	1.80	0.684	1	A
Heptachlor	ND		ug/kg	0.902	0.405	1	A
Aldrin	ND		ug/kg	1.80	0.636	1	A
Heptachlor epoxide	ND		ug/kg	3.38	1.02	1	A
Endrin	ND		ug/kg	0.752	0.308	1	A
Endrin aldehyde	ND		ug/kg	2.26	0.790	1	A
Endrin ketone	ND		ug/kg	1.80	0.465	1	A
Dieldrin	ND		ug/kg	1.13	0.564	1	A
4,4'-DDE	ND		ug/kg	1.80	0.417	1	A
4,4'-DDD	ND		ug/kg	1.80	0.644	1	A
4,4'-DDT	ND		ug/kg	3.38	1.45	1	A
Endosulfan I	ND		ug/kg	1.80	0.426	1	A
Endosulfan II	ND		ug/kg	1.80	0.603	1	A
Endosulfan sulfate	ND		ug/kg	0.752	0.358	1	A
Methoxychlor	ND		ug/kg	3.38	1.05	1	A
Toxaphene	ND		ug/kg	33.8	9.48	1	A
cis-Chlordane	ND		ug/kg	2.26	0.629	1	A
trans-Chlordane	ND		ug/kg	2.26	0.596	1	A
Chlordane	ND		ug/kg	14.7	5.98	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09
 Client ID: RSB12_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 15:18
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09
 Client ID: RSB12_1-2
 Sample Location: NY, NY

Date Collected: 04/09/18 15:18
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 22:19
 Analyst: SL
 Percent Solids: 88%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.82	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	121		30-150	A
DCAA	149		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10
Client ID: RSB12_7-8
Sample Location: NY, NY

Date Collected: 04/09/18 14:54
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/13/18 23:21
Analyst: JW
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 04/11/18 10:09
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.15	0.422	1	A
Lindane	ND		ug/kg	0.898	0.401	1	A
Alpha-BHC	ND		ug/kg	0.898	0.255	1	A
Beta-BHC	ND		ug/kg	2.15	0.817	1	A
Heptachlor	ND		ug/kg	1.08	0.483	1	A
Aldrin	ND		ug/kg	2.15	0.758	1	A
Heptachlor epoxide	ND		ug/kg	4.04	1.21	1	A
Endrin	ND		ug/kg	0.898	0.368	1	A
Endrin aldehyde	ND		ug/kg	2.69	0.942	1	A
Endrin ketone	ND		ug/kg	2.15	0.555	1	A
Dieldrin	ND		ug/kg	1.35	0.673	1	A
4,4'-DDE	ND		ug/kg	2.15	0.498	1	A
4,4'-DDD	ND		ug/kg	2.15	0.768	1	A
4,4'-DDT	ND		ug/kg	4.04	1.73	1	A
Endosulfan I	ND		ug/kg	2.15	0.509	1	A
Endosulfan II	ND		ug/kg	2.15	0.720	1	A
Endosulfan sulfate	ND		ug/kg	0.898	0.427	1	A
Methoxychlor	ND		ug/kg	4.04	1.26	1	A
Toxaphene	ND		ug/kg	40.4	11.3	1	A
cis-Chlordane	ND		ug/kg	2.69	0.750	1	A
trans-Chlordane	ND		ug/kg	2.69	0.711	1	A
Chlordane	ND		ug/kg	17.5	7.14	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-10

Date Collected: 04/09/18 14:54

Client ID: RSB12_7-8

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	100		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	109		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10
 Client ID: RSB12_7-8
 Sample Location: NY, NY

Date Collected: 04/09/18 14:54
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 22:38
 Analyst: SL
 Percent Solids: 72%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	229	14.4	1	A
2,4,5-T	ND		ug/kg	229	7.09	1	A
2,4,5-TP (Silvex)	ND		ug/kg	229	6.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	123		30-150	A
DCAA	113		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11
 Client ID: RSB12_5-6
 Sample Location: NY, NY

Date Collected: 04/09/18 15:05
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 14:52
 Analyst: KEG
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 10:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.95	0.383	1	A
Lindane	ND		ug/kg	0.814	0.364	1	A
Alpha-BHC	ND		ug/kg	0.814	0.231	1	A
Beta-BHC	ND		ug/kg	1.95	0.741	1	A
Heptachlor	ND		ug/kg	0.977	0.438	1	A
Aldrin	ND		ug/kg	1.95	0.688	1	A
Heptachlor epoxide	ND		ug/kg	3.66	1.10	1	A
Endrin	ND		ug/kg	0.814	0.334	1	A
Endrin aldehyde	ND		ug/kg	2.44	0.855	1	A
Endrin ketone	ND		ug/kg	1.95	0.503	1	A
Dieldrin	ND		ug/kg	1.22	0.610	1	B
4,4'-DDE	ND		ug/kg	1.95	0.452	1	A
4,4'-DDD	ND		ug/kg	1.95	0.697	1	A
4,4'-DDT	ND		ug/kg	3.66	1.57	1	A
Endosulfan I	ND		ug/kg	1.95	0.462	1	A
Endosulfan II	ND		ug/kg	1.95	0.653	1	A
Endosulfan sulfate	ND		ug/kg	0.814	0.387	1	A
Methoxychlor	ND		ug/kg	3.66	1.14	1	A
Toxaphene	ND		ug/kg	36.6	10.2	1	A
cis-Chlordane	ND		ug/kg	2.44	0.680	1	A
trans-Chlordane	ND		ug/kg	2.44	0.645	1	A
Chlordane	ND		ug/kg	15.9	6.47	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11
 Client ID: RSB12_5-6
 Sample Location: NY, NY

Date Collected: 04/09/18 15:05
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11
 Client ID: RSB12_5-6
 Sample Location: NY, NY

Date Collected: 04/09/18 15:05
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 22:56
 Analyst: SL
 Percent Solids: 78%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	214	13.5	1	A
2,4,5-T	ND		ug/kg	214	6.63	1	A
2,4,5-TP (Silvex)	ND		ug/kg	214	5.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	92		30-150	B

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-12
 Client ID: RSDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 14:56
 Analyst: KEG
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 10:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.338	1	A
Lindane	ND		ug/kg	0.719	0.322	1	A
Alpha-BHC	ND		ug/kg	0.719	0.204	1	A
Beta-BHC	ND		ug/kg	1.73	0.655	1	A
Heptachlor	ND		ug/kg	0.863	0.387	1	A
Aldrin	ND		ug/kg	1.73	0.608	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.971	1	A
Endrin	ND		ug/kg	0.719	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.755	1	A
Endrin ketone	ND		ug/kg	1.73	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.540	1	A
4,4'-DDE	ND		ug/kg	1.73	0.399	1	A
4,4'-DDD	ND		ug/kg	1.73	0.616	1	A
4,4'-DDT	ND		ug/kg	3.24	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	ND		ug/kg	1.73	0.577	1	A
Endosulfan sulfate	ND		ug/kg	0.719	0.342	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.06	1	A
cis-Chlordane	ND		ug/kg	2.16	0.601	1	A
trans-Chlordane	ND		ug/kg	2.16	0.570	1	A
Chlordane	ND		ug/kg	14.0	5.72	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-12
 Client ID: RSDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: 4650 BROADWAY**Lab Number:** L1812210**Project Number:** 170505502**Report Date:** 04/17/18**SAMPLE RESULTS**

Lab ID: L1812210-12
 Client ID: RSBDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 23:15
 Analyst: SL
 Percent Solids: 90%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.71	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	128		30-150	A
DCAA	122		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/12/18 11:42
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/11/18 10:09
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-12 Batch: WG1105514-1						
Delta-BHC	ND		ug/kg	1.58	0.309	A
Lindane	ND		ug/kg	0.658	0.294	A
Alpha-BHC	ND		ug/kg	0.658	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.599	A
Heptachlor	ND		ug/kg	0.790	0.354	A
Aldrin	ND		ug/kg	1.58	0.556	A
Heptachlor epoxide	ND		ug/kg	2.96	0.889	A
Endrin	ND		ug/kg	0.658	0.270	A
Endrin aldehyde	ND		ug/kg	1.97	0.691	A
Endrin ketone	ND		ug/kg	1.58	0.407	A
Dieldrin	ND		ug/kg	0.987	0.494	A
4,4'-DDE	ND		ug/kg	1.58	0.365	A
4,4'-DDD	ND		ug/kg	1.58	0.564	A
4,4'-DDT	ND		ug/kg	2.96	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.373	A
Endosulfan II	ND		ug/kg	1.58	0.528	A
Endosulfan sulfate	ND		ug/kg	0.658	0.313	A
Methoxychlor	ND		ug/kg	2.96	0.922	A
Toxaphene	ND		ug/kg	29.6	8.29	A
cis-Chlordane	ND		ug/kg	1.97	0.550	A
trans-Chlordane	ND		ug/kg	1.97	0.521	A
Chlordane	ND		ug/kg	12.8	5.23	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/12/18 11:42
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 04/11/18 10:09
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-12 Batch: WG1105514-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	95		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 04/12/18 16:40
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Methylation Date: 04/12/18 14:44

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-12 Batch: WG1105731-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	108		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1105514-2 WG1105514-3									
Delta-BHC	93		101		30-150	8		30	A
Lindane	91		93		30-150	2		30	A
Alpha-BHC	97		98		30-150	1		30	A
Beta-BHC	82		83		30-150	1		30	A
Heptachlor	89		94		30-150	5		30	A
Aldrin	102		100		30-150	2		30	A
Heptachlor epoxide	96		98		30-150	2		30	A
Endrin	110		115		30-150	4		30	A
Endrin aldehyde	73		73		30-150	0		30	A
Endrin ketone	97		102		30-150	5		30	A
Dieldrin	112		114		30-150	2		30	A
4,4'-DDE	101		101		30-150	0		30	A
4,4'-DDD	99		105		30-150	6		30	A
4,4'-DDT	92		104		30-150	12		30	A
Endosulfan I	96		97		30-150	1		30	A
Endosulfan II	96		99		30-150	3		30	A
Endosulfan sulfate	74		76		30-150	3		30	A
Methoxychlor	91		102		30-150	11		30	A
cis-Chlordane	87		90		30-150	3		30	A
trans-Chlordane	66		66		30-150	0		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1105514-2 WG1105514-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		80		30-150	B
Decachlorobiphenyl	109		111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		81		30-150	A
Decachlorobiphenyl	99		96		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1105731-2 WG1105731-3									
2,4-D	97		94		30-150	3		30	A
2,4,5-T	92		88		30-150	4		30	A
2,4,5-TP (Silvex)	86		85		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	109		99		30-150	A
DCAA	114		102		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Organochlorine Pesticides by GC - Westborough Lab ID: RSB10_9-10 Associated sample(s): 01-12 QC Batch ID: WG1105514-4 WG1105514-5 QC Sample: L1812210-05 Client													
Delta-BHC	ND	42	34.4	82		32.8	79		30-150	5		50	A
Lindane	ND	42	33.3	79		30.6	74		30-150	8		50	A
Alpha-BHC	ND	42	34.7	83		33.0	80		30-150	5		50	A
Beta-BHC	ND	42	32.0	76		30.9	75		30-150	3		50	A
Heptachlor	ND	42	25.4	61		19.1	46		30-150	28		50	A
Aldrin	ND	42	35.0	83		32.8	79		30-150	6		50	A
Heptachlor epoxide	ND	42	33.3	79		32.9	79		30-150	1		50	A
Endrin	ND	42	35.6	85		32.9	79		30-150	8		50	A
Endrin aldehyde	ND	42	22.3	53		19.8	48		30-150	12		50	A
Endrin ketone	ND	42	29.2	70		24.5	59		30-150	18		50	A
Dieldrin	ND	42	36.8	88		34.3	83		30-150	7		50	A
4,4'-DDE	ND	42	35.8	85		35.3	85		30-150	1		50	A
4,4'-DDD	ND	42	34.9	83		31.8	77		30-150	9		50	A
4,4'-DDT	ND	42	35.9	86		27.7	67		30-150	26		50	A
Endosulfan I	ND	42	32.5	77		29.9	72		30-150	8		50	A
Endosulfan II	ND	42	29.7	71		28.7	69		30-150	3		50	A
Endosulfan sulfate	ND	42	15.1	36		14.5	35		30-150	4		50	A
Methoxychlor	ND	42	34.7	83		25.4	61		30-150	31		50	A
cis-Chlordane	ND	42	32.7	78		30.3	73		30-150	8		50	A
trans-Chlordane	ND	42	31.4	75		29.4	71		30-150	7		50	A

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1105514-4 WG1105514-5 QC Sample: L1812210-05 Client ID: RSB10_9-10												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		70		30-150	B
Decachlorobiphenyl	109		101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		72		30-150	A
Decachlorobiphenyl	104		102		30-150	A

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1105731-4 WG1105731-5 QC Sample: L1812210-05 Client ID: RSB10_9-10													
2,4-D	ND	211	199J	94		181.J	86		30-150	9		30	A
2,4,5-T	ND	211	197J	93		184.J	87		30-150	7		30	A
2,4,5-TP (Silvex)	ND	211	194J	92		176.J	83		30-150	10		30	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
DCAA	109		105		30-150	A
DCAA	110		99		30-150	B

METALS

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01

Date Collected: 04/09/18 09:20

Client ID: RSB04_6-7

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3870		mg/kg	9.31	2.51	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.66	0.354	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Arsenic, Total	0.652	J	mg/kg	0.931	0.194	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Barium, Total	9.92		mg/kg	0.931	0.162	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Beryllium, Total	0.158	J	mg/kg	0.466	0.031	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Cadmium, Total	0.149	J	mg/kg	0.931	0.091	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Calcium, Total	607		mg/kg	9.31	3.26	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Chromium, Total	5.88		mg/kg	0.931	0.089	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Cobalt, Total	2.50		mg/kg	1.86	0.154	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Copper, Total	5.09		mg/kg	0.931	0.240	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Iron, Total	7000		mg/kg	4.66	0.841	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Lead, Total	21.0		mg/kg	4.66	0.250	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Magnesium, Total	1090		mg/kg	9.31	1.43	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Manganese, Total	53.8		mg/kg	0.931	0.148	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.075	0.016	1	04/11/18 07:00	04/12/18 19:26	EPA 7471B	1,7471B	EA
Nickel, Total	5.74		mg/kg	2.33	0.225	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Potassium, Total	331		mg/kg	233	13.4	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.86	0.240	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.931	0.263	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Sodium, Total	251		mg/kg	186	2.93	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.86	0.293	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Vanadium, Total	7.88		mg/kg	0.931	0.189	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
Zinc, Total	12.0		mg/kg	4.66	0.273	2	04/10/18 19:00	04/12/18 13:44	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.9		mg/kg	0.96	0.96	1		04/12/18 13:44	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02

Date Collected: 04/09/18 09:50

Client ID: RSB04_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5980		mg/kg	8.74	2.36	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.37	0.332	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Arsenic, Total	0.865	J	mg/kg	0.874	0.182	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Barium, Total	20.3		mg/kg	0.874	0.152	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Beryllium, Total	0.236	J	mg/kg	0.437	0.029	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Cadmium, Total	0.218	J	mg/kg	0.874	0.086	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Calcium, Total	273		mg/kg	8.74	3.06	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Chromium, Total	15.9		mg/kg	0.874	0.084	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Cobalt, Total	3.20		mg/kg	1.75	0.145	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Copper, Total	7.29		mg/kg	0.874	0.226	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Iron, Total	10400		mg/kg	4.37	0.789	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Lead, Total	4.16	J	mg/kg	4.37	0.234	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Magnesium, Total	1690		mg/kg	8.74	1.35	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Manganese, Total	141		mg/kg	0.874	0.139	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Mercury, Total	0.029	J	mg/kg	0.071	0.015	1	04/11/18 07:00	04/12/18 19:28	EPA 7471B	1,7471B	EA
Nickel, Total	8.04		mg/kg	2.18	0.212	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Potassium, Total	390		mg/kg	218	12.6	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.75	0.226	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.874	0.247	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Sodium, Total	300		mg/kg	175	2.75	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.75	0.275	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Vanadium, Total	10.9		mg/kg	0.874	0.177	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
Zinc, Total	18.0		mg/kg	4.37	0.256	2	04/10/18 19:00	04/12/18 13:48	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16	J	mg/kg	0.89	0.89	1		04/12/18 13:48	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03

Date Collected: 04/09/18 09:55

Client ID: RSB04_10-11

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7470		mg/kg	9.73	2.63	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.86	0.370	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Arsenic, Total	2.54		mg/kg	0.973	0.202	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Barium, Total	13.0		mg/kg	0.973	0.169	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Beryllium, Total	0.311	J	mg/kg	0.486	0.032	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Cadmium, Total	0.331	J	mg/kg	0.973	0.095	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Calcium, Total	964		mg/kg	9.73	3.40	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Chromium, Total	11.9		mg/kg	0.973	0.093	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Cobalt, Total	5.45		mg/kg	1.94	0.161	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Copper, Total	18.3		mg/kg	0.973	0.251	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Iron, Total	14400		mg/kg	4.86	0.878	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Lead, Total	7.96		mg/kg	4.86	0.261	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Magnesium, Total	3460		mg/kg	9.73	1.50	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Manganese, Total	114		mg/kg	0.973	0.155	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.078	0.016	1	04/11/18 07:00	04/12/18 19:29	EPA 7471B	1,7471B	EA
Nickel, Total	14.0		mg/kg	2.43	0.235	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Potassium, Total	434		mg/kg	243	14.0	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.94	0.251	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.973	0.275	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Sodium, Total	308		mg/kg	194	3.06	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.94	0.306	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Vanadium, Total	13.0		mg/kg	0.973	0.197	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
Zinc, Total	45.7		mg/kg	4.86	0.285	2	04/10/18 19:00	04/12/18 15:05	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11	J	mg/kg	0.99	0.99	1		04/12/18 15:05	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04

Date Collected: 04/09/18 11:30

Client ID: RSB10_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6320		mg/kg	8.78	2.37	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.39	0.334	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Arsenic, Total	0.816	J	mg/kg	0.878	0.182	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Barium, Total	142		mg/kg	0.878	0.153	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Beryllium, Total	0.237	J	mg/kg	0.439	0.029	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Cadmium, Total	0.360	J	mg/kg	0.878	0.086	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Calcium, Total	1880		mg/kg	8.78	3.07	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Chromium, Total	9.87		mg/kg	0.878	0.084	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Cobalt, Total	3.23		mg/kg	1.76	0.146	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Copper, Total	8.14		mg/kg	0.878	0.226	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Iron, Total	9310		mg/kg	4.39	0.792	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Lead, Total	622		mg/kg	4.39	0.235	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Magnesium, Total	1830		mg/kg	8.78	1.35	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Manganese, Total	103		mg/kg	0.878	0.140	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Mercury, Total	0.025	J	mg/kg	0.070	0.015	1	04/11/18 07:00	04/12/18 19:31	EPA 7471B	1,7471B	EA
Nickel, Total	8.22		mg/kg	2.19	0.212	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Potassium, Total	365		mg/kg	219	12.6	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.76	0.226	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.878	0.248	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Sodium, Total	326		mg/kg	176	2.76	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.76	0.276	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Vanadium, Total	10.7		mg/kg	0.878	0.178	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
Zinc, Total	48.1		mg/kg	4.39	0.257	2	04/10/18 19:00	04/12/18 15:09	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.9		mg/kg	0.89	0.89	1		04/12/18 15:09	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05

Date Collected: 04/09/18 11:11

Client ID: RSB10_9-10

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6900		mg/kg	10.2	2.74	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Antimony, Total	0.569	J	mg/kg	5.08	0.386	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Arsenic, Total	1.87		mg/kg	1.02	0.211	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Barium, Total	19.5		mg/kg	1.02	0.177	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Beryllium, Total	0.305	J	mg/kg	0.508	0.034	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Cadmium, Total	0.356	J	mg/kg	1.02	0.100	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Calcium, Total	1290		mg/kg	10.2	3.56	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Chromium, Total	12.4		mg/kg	1.02	0.098	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Cobalt, Total	7.78		mg/kg	2.03	0.169	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Copper, Total	14.2		mg/kg	1.02	0.262	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Iron, Total	14900		mg/kg	5.08	0.917	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Lead, Total	5.86		mg/kg	5.08	0.272	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Magnesium, Total	2250		mg/kg	10.2	1.56	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Manganese, Total	238		mg/kg	1.02	0.161	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Mercury, Total	ND		mg/kg	0.081	0.017	1	04/11/18 07:00	04/12/18 19:19	EPA 7471B	1,7471B	EA
Nickel, Total	15.0		mg/kg	2.54	0.246	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Potassium, Total	415		mg/kg	254	14.6	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Selenium, Total	ND		mg/kg	2.03	0.262	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Silver, Total	ND		mg/kg	1.02	0.287	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Sodium, Total	321		mg/kg	203	3.20	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Thallium, Total	ND		mg/kg	2.03	0.320	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Vanadium, Total	12.9		mg/kg	1.02	0.206	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
Zinc, Total	33.5		mg/kg	5.08	0.298	2	04/10/18 19:00	04/12/18 10:22	EPA 3050B	1,6010C	PE
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	1.0	1.0	1		04/12/18 10:22	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06

Date Collected: 04/09/18 13:45

Client ID: RSB11_8-9

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3930		mg/kg	9.66	2.61	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.83	0.367	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Arsenic, Total	0.763	J	mg/kg	0.966	0.201	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Barium, Total	20.8		mg/kg	0.966	0.168	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Beryllium, Total	0.174	J	mg/kg	0.483	0.032	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Cadmium, Total	0.261	J	mg/kg	0.966	0.095	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Calcium, Total	447		mg/kg	9.66	3.38	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Chromium, Total	7.23		mg/kg	0.966	0.093	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Cobalt, Total	5.00		mg/kg	1.93	0.160	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Copper, Total	7.61		mg/kg	0.966	0.249	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Iron, Total	8100		mg/kg	4.83	0.872	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Lead, Total	23.0		mg/kg	4.83	0.259	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Magnesium, Total	1250		mg/kg	9.66	1.49	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Manganese, Total	58.3		mg/kg	0.966	0.154	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.079	0.017	1	04/11/18 07:00	04/12/18 19:37	EPA 7471B	1,7471B	EA
Nickel, Total	11.1		mg/kg	2.41	0.234	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Potassium, Total	321		mg/kg	241	13.9	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.93	0.249	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.966	0.273	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Sodium, Total	252		mg/kg	193	3.04	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.93	0.304	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Vanadium, Total	8.03		mg/kg	0.966	0.196	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
Zinc, Total	23.4		mg/kg	4.83	0.283	2	04/10/18 19:00	04/12/18 15:14	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.2		mg/kg	1.0	1.0	1		04/12/18 15:14	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07

Date Collected: 04/09/18 14:05

Client ID: RSB11_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7380		mg/kg	9.37	2.53	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Antimony, Total	0.365	J	mg/kg	4.68	0.356	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Arsenic, Total	0.440	J	mg/kg	0.937	0.195	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Barium, Total	15.2		mg/kg	0.937	0.163	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Beryllium, Total	0.244	J	mg/kg	0.468	0.031	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Cadmium, Total	0.244	J	mg/kg	0.937	0.092	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Calcium, Total	577		mg/kg	9.37	3.28	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Chromium, Total	10.6		mg/kg	0.937	0.090	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Cobalt, Total	4.72		mg/kg	1.87	0.156	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Copper, Total	11.9		mg/kg	0.937	0.242	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Iron, Total	11300		mg/kg	4.68	0.846	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Lead, Total	8.12		mg/kg	4.68	0.251	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Magnesium, Total	2670		mg/kg	9.37	1.44	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Manganese, Total	94.4		mg/kg	0.937	0.149	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.078	0.016	1	04/11/18 07:00	04/12/18 19:39	EPA 7471B	1,7471B	EA
Nickel, Total	9.63		mg/kg	2.34	0.227	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Potassium, Total	552		mg/kg	234	13.5	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.87	0.242	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.937	0.265	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Sodium, Total	447		mg/kg	187	2.95	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.87	0.295	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Vanadium, Total	14.1		mg/kg	0.937	0.190	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
Zinc, Total	28.8		mg/kg	4.68	0.274	2	04/10/18 19:00	04/12/18 15:18	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11		mg/kg	0.99	0.99	1		04/12/18 15:18	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08

Date Collected: 04/09/18 14:10

Client ID: RSB11_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7310		mg/kg	9.20	2.48	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.60	0.350	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Arsenic, Total	0.469	J	mg/kg	0.920	0.191	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Barium, Total	15.9		mg/kg	0.920	0.160	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Beryllium, Total	0.294	J	mg/kg	0.460	0.030	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Cadmium, Total	0.276	J	mg/kg	0.920	0.090	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Calcium, Total	345		mg/kg	9.20	3.22	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Chromium, Total	10.7		mg/kg	0.920	0.088	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Cobalt, Total	5.28		mg/kg	1.84	0.153	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Copper, Total	9.36		mg/kg	0.920	0.238	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Iron, Total	13000		mg/kg	4.60	0.831	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Lead, Total	5.72		mg/kg	4.60	0.247	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Magnesium, Total	2540		mg/kg	9.20	1.42	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Manganese, Total	202		mg/kg	0.920	0.146	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.073	0.016	1	04/11/18 07:00	04/12/18 19:41	EPA 7471B	1,7471B	EA
Nickel, Total	10.2		mg/kg	2.30	0.223	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Potassium, Total	530		mg/kg	230	13.2	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.84	0.238	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.920	0.260	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Sodium, Total	289		mg/kg	184	2.90	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.84	0.290	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Vanadium, Total	12.1		mg/kg	0.920	0.187	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
Zinc, Total	28.1		mg/kg	4.60	0.270	2	04/10/18 19:00	04/12/18 15:23	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10	J	mg/kg	0.94	0.94	1		04/12/18 15:23	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09

Date Collected: 04/09/18 15:18

Client ID: RSB12_1-2

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8080		mg/kg	8.87	2.39	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Antimony, Total	0.372	J	mg/kg	4.43	0.337	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Arsenic, Total	1.36		mg/kg	0.887	0.184	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Barium, Total	14.8		mg/kg	0.887	0.154	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Beryllium, Total	0.328	J	mg/kg	0.443	0.029	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Cadmium, Total	0.301	J	mg/kg	0.887	0.087	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Calcium, Total	252		mg/kg	8.87	3.10	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Chromium, Total	24.8		mg/kg	0.887	0.085	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Cobalt, Total	4.18		mg/kg	1.77	0.147	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Copper, Total	11.1		mg/kg	0.887	0.229	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Iron, Total	15100		mg/kg	4.43	0.801	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Lead, Total	6.06		mg/kg	4.43	0.238	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Magnesium, Total	2140		mg/kg	8.87	1.36	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Manganese, Total	79.9		mg/kg	0.887	0.141	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.073	0.015	1	04/11/18 07:00	04/12/18 19:42	EPA 7471B	1,7471B	EA
Nickel, Total	9.67		mg/kg	2.22	0.214	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Potassium, Total	431		mg/kg	222	12.8	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.77	0.229	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.887	0.251	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Sodium, Total	96.6	J	mg/kg	177	2.79	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.77	0.279	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Vanadium, Total	15.0		mg/kg	0.887	0.180	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
Zinc, Total	23.6		mg/kg	4.43	0.260	2	04/10/18 19:00	04/12/18 15:27	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	24	J	mg/kg	0.91	0.91	1		04/12/18 15:27	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10

Date Collected: 04/09/18 14:54

Client ID: RSB12_7-8

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9020		mg/kg	10.7	2.88	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	5.34	0.405	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Arsenic, Total	1.00	J	mg/kg	1.07	0.222	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Barium, Total	22.2		mg/kg	1.07	0.186	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Beryllium, Total	0.277	J	mg/kg	0.534	0.035	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Cadmium, Total	0.331	J	mg/kg	1.07	0.104	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Calcium, Total	582		mg/kg	10.7	3.73	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Chromium, Total	10.4		mg/kg	1.07	0.102	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Cobalt, Total	5.56		mg/kg	2.13	0.177	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Copper, Total	14.0		mg/kg	1.07	0.275	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Iron, Total	14700		mg/kg	5.34	0.964	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Lead, Total	8.79		mg/kg	5.34	0.286	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Magnesium, Total	3610		mg/kg	10.7	1.64	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Manganese, Total	144		mg/kg	1.07	0.170	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.088	0.019	1	04/11/18 07:00	04/12/18 19:44	EPA 7471B	1,7471B	EA
Nickel, Total	13.4		mg/kg	2.67	0.258	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Potassium, Total	447		mg/kg	267	15.4	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	2.13	0.275	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.07	0.302	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Sodium, Total	300		mg/kg	213	3.36	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.13	0.336	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Vanadium, Total	13.6		mg/kg	1.07	0.217	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
Zinc, Total	39.6		mg/kg	5.34	0.313	2	04/10/18 19:00	04/12/18 15:32	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10	J	mg/kg	1.1	1.1	1		04/12/18 15:32	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11

Date Collected: 04/09/18 15:05

Client ID: RSB12_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7300		mg/kg	10.0	2.71	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	5.01	0.381	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Arsenic, Total	2.32		mg/kg	1.00	0.208	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Barium, Total	16.8		mg/kg	1.00	0.174	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Beryllium, Total	0.331	J	mg/kg	0.501	0.033	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Cadmium, Total	0.120	J	mg/kg	1.00	0.098	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Calcium, Total	503		mg/kg	10.0	3.51	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Chromium, Total	12.3		mg/kg	1.00	0.096	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Cobalt, Total	6.60		mg/kg	2.00	0.166	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Copper, Total	11.6		mg/kg	1.00	0.259	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Iron, Total	13900		mg/kg	5.01	0.905	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Lead, Total	10.1		mg/kg	5.01	0.269	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Magnesium, Total	2840		mg/kg	10.0	1.54	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Manganese, Total	122		mg/kg	1.00	0.159	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Mercury, Total	0.019	J	mg/kg	0.081	0.017	1	04/11/18 07:00	04/12/18 19:46	EPA 7471B	1,7471B	EA
Nickel, Total	11.3		mg/kg	2.50	0.242	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Potassium, Total	456		mg/kg	250	14.4	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Selenium, Total	ND		mg/kg	2.00	0.259	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	1.00	0.284	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Sodium, Total	218		mg/kg	200	3.16	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	2.00	0.316	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Vanadium, Total	16.6		mg/kg	1.00	0.203	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
Zinc, Total	28.7		mg/kg	5.01	0.294	2	04/10/18 19:50	04/11/18 21:09	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11	J	mg/kg	1.0	1.0	1		04/11/18 21:09	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-12
 Client ID: RSDUP01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 00:00
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5290		mg/kg	8.63	2.33	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Antimony, Total	0.440	J	mg/kg	4.32	0.328	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Arsenic, Total	1.16		mg/kg	0.863	0.180	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Barium, Total	19.2		mg/kg	0.863	0.150	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Beryllium, Total	0.190	J	mg/kg	0.432	0.029	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Cadmium, Total	0.095	J	mg/kg	0.863	0.085	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Calcium, Total	827		mg/kg	8.63	3.02	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Chromium, Total	9.01		mg/kg	0.863	0.083	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Cobalt, Total	2.74		mg/kg	1.73	0.143	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Copper, Total	5.00		mg/kg	0.863	0.223	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Iron, Total	7540		mg/kg	4.32	0.780	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Lead, Total	9.80		mg/kg	4.32	0.231	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Magnesium, Total	1250		mg/kg	8.63	1.33	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Manganese, Total	81.9		mg/kg	0.863	0.137	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Mercury, Total	0.026	J	mg/kg	0.070	0.015	1	04/11/18 07:00	04/12/18 19:48	EPA 7471B	1,7471B	EA
Nickel, Total	6.92		mg/kg	2.16	0.209	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Potassium, Total	270		mg/kg	216	12.4	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Selenium, Total	ND		mg/kg	1.73	0.223	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.863	0.244	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Sodium, Total	268		mg/kg	173	2.72	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.73	0.272	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Vanadium, Total	9.35		mg/kg	0.863	0.175	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC
Zinc, Total	21.2		mg/kg	4.32	0.253	2	04/10/18 19:50	04/11/18 21:13	EPA 3050B	1,6010C	LC

General Chemistry - Mansfield Lab

Chromium, Trivalent	8.6	J	mg/kg	0.89	0.89	1		04/11/18 21:13	NA	107,-	
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Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1105284-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Barium, Total	ND		mg/kg	0.400	0.070	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Copper, Total	ND		mg/kg	0.400	0.103	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Iron, Total	ND		mg/kg	2.00	0.361	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Lead, Total	0.424	J	mg/kg	2.00	0.107	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Potassium, Total	ND		mg/kg	100	5.76	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Silver, Total	ND		mg/kg	0.400	0.113	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Sodium, Total	ND		mg/kg	80.0	1.26	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/10/18 19:00	04/12/18 10:13	1,6010C	PE

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11-12 Batch: WG1105285-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Method Blank Analysis Batch Quality Control

Beryllium, Total	ND	mg/kg	0.200	0.013	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Cadmium, Total	ND	mg/kg	0.400	0.039	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Calcium, Total	ND	mg/kg	4.00	1.40	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Chromium, Total	ND	mg/kg	0.400	0.038	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Cobalt, Total	ND	mg/kg	0.800	0.066	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Copper, Total	ND	mg/kg	0.400	0.103	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Iron, Total	ND	mg/kg	2.00	0.361	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Magnesium, Total	ND	mg/kg	4.00	0.616	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Manganese, Total	ND	mg/kg	0.400	0.064	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Potassium, Total	ND	mg/kg	100	5.76	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Selenium, Total	ND	mg/kg	0.800	0.103	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Silver, Total	ND	mg/kg	0.400	0.113	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Sodium, Total	ND	mg/kg	80.0	1.26	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Vanadium, Total	ND	mg/kg	0.400	0.081	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC
Zinc, Total	ND	mg/kg	2.00	0.117	1	04/10/18 19:50	04/11/18 18:46	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1105394-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	04/11/18 07:00	04/12/18 19:15	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1105284-2 SRM Lot Number: D098-540								
Aluminum, Total	80		-		47-153	-		
Antimony, Total	137		-		6-194	-		
Arsenic, Total	109		-		83-117	-		
Barium, Total	102		-		82-118	-		
Beryllium, Total	106		-		83-117	-		
Cadmium, Total	108		-		82-117	-		
Calcium, Total	100		-		81-118	-		
Chromium, Total	102		-		83-119	-		
Cobalt, Total	107		-		84-116	-		
Copper, Total	107		-		84-116	-		
Iron, Total	101		-		60-140	-		
Lead, Total	102		-		82-117	-		
Magnesium, Total	93		-		76-124	-		
Manganese, Total	100		-		82-118	-		
Nickel, Total	107		-		82-117	-		
Potassium, Total	85		-		69-131	-		
Selenium, Total	106		-		78-121	-		
Silver, Total	110		-		80-120	-		
Sodium, Total	81		-		74-126	-		
Thallium, Total	102		-		80-119	-		
Vanadium, Total	100		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1105284-2 SRM Lot Number: D098-540					
Zinc, Total	106	-	81-119	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11-12 Batch: WG1105285-2 SRM Lot Number: D098-540					
Aluminum, Total	59	-	47-153	-	
Antimony, Total	148	-	6-194	-	
Arsenic, Total	90	-	83-117	-	
Barium, Total	88	-	82-118	-	
Beryllium, Total	84	-	83-117	-	
Cadmium, Total	99	-	82-117	-	
Calcium, Total	91	-	81-118	-	
Chromium, Total	88	-	83-119	-	
Cobalt, Total	101	-	84-116	-	
Copper, Total	90	-	84-116	-	
Iron, Total	75	-	60-140	-	
Lead, Total	86	-	82-117	-	
Magnesium, Total	77	-	76-124	-	
Manganese, Total	89	-	82-118	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	70	-	69-131	-	
Selenium, Total	95	-	78-121	-	
Silver, Total	89	-	80-120	-	
Sodium, Total	93	-	74-126	-	
Thallium, Total	85	-	80-119	-	
Vanadium, Total	85	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11-12 Batch: WG1105285-2 SRM Lot Number: D098-540					
Zinc, Total	87	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1105394-2 SRM Lot Number: D098-540					
Mercury, Total	88	-	50-149	-	



Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1105284-3 WG1105284-4 QC Sample: L1812210-05 Client ID: RSB10_9-10												
Aluminum, Total	6900	199	7070	85		7130	114		75-125	1		20
Antimony, Total	0.569J	49.8	39.9	80		39.9	79		75-125	0		20
Arsenic, Total	1.87	12	13.6	98		13.8	99		75-125	1		20
Barium, Total	19.5	199	197	89		199	89		75-125	1		20
Beryllium, Total	0.305J	4.98	4.83	97		4.86	97		75-125	1		20
Cadmium, Total	0.356J	5.08	4.95	97		5.04	98		75-125	2		20
Calcium, Total	1290	996	1590	30	Q	1610	32	Q	75-125	1		20
Chromium, Total	12.4	19.9	28.6	81		28.8	82		75-125	1		20
Cobalt, Total	7.78	49.8	51.2	87		51.7	87		75-125	1		20
Copper, Total	14.2	24.9	37.6	94		36.7	90		75-125	2		20
Iron, Total	14900	99.6	13800	0	Q	14600	0	Q	75-125	6		20
Lead, Total	5.86	50.8	50.7	88		51.6	89		75-125	2		20
Magnesium, Total	2250	996	2970	72	Q	3230	97		75-125	8		20
Manganese, Total	238.	49.8	277	78		300	123		75-125	8		20
Nickel, Total	15.0	49.8	57.6	86		58.1	86		75-125	1		20
Potassium, Total	415.	996	1220	81		1260	84		75-125	3		20
Selenium, Total	ND	12	10.5	88		10.8	90		75-125	3		20
Silver, Total	ND	29.9	28.1	94		28.2	93		75-125	0		20
Sodium, Total	321.	996	1220	90		1240	91		75-125	2		20
Thallium, Total	ND	12	10.3	86		10.7	89		75-125	4		20
Vanadium, Total	12.9	49.8	59.1	93		59.3	92		75-125	0		20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1105284-3 WG1105284-4 QC Sample: L1812210-05 Client ID: RSB10_9-10									
Zinc, Total	33.5	49.8	76.6	86	76.7	86	75-125	0	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11-12 QC Batch ID: WG1105285-3 QC Sample: L1810464-05 Client ID: MS Sample									
Aluminum, Total	3720	183	3830	60	Q	-	75-125	-	20
Antimony, Total	0.758J	45.7	43.4	95		-	75-125	-	20
Arsenic, Total	2.40	11	13.1	98		-	75-125	-	20
Barium, Total	22.8	183	192	93		-	75-125	-	20
Beryllium, Total	0.238J	4.57	4.48	98		-	75-125	-	20
Cadmium, Total	0.141J	4.66	4.72	101		-	75-125	-	20
Calcium, Total	1540	913	2340	88		-	75-125	-	20
Chromium, Total	9.51	18.3	26.4	92		-	75-125	-	20
Cobalt, Total	2.69	45.7	44.6	92		-	75-125	-	20
Copper, Total	13.2	22.8	35.8	99		-	75-125	-	20
Iron, Total	7020	91.3	6930	0	Q	-	75-125	-	20
Lead, Total	30.4	46.6	70.7	86		-	75-125	-	20
Magnesium, Total	2050	913	2330	31	Q	-	75-125	-	20
Manganese, Total	95.0	45.7	116	46	Q	-	75-125	-	20
Nickel, Total	5.61	45.7	46.8	90		-	75-125	-	20
Potassium, Total	969.	913	1700	80		-	75-125	-	20
Selenium, Total	ND	11	10.5	96		-	75-125	-	20
Silver, Total	ND	27.4	26.6	97		-	75-125	-	20
Sodium, Total	169.J	913	1070	117		-	75-125	-	20
Thallium, Total	ND	11	9.77	89		-	75-125	-	20
Vanadium, Total	16.3	45.7	58.2	92		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11-12 QC Batch ID: WG1105285-3 QC Sample: L1810464-05 Client ID: MS Sample									
Zinc, Total	136.	45.7	170	74	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1105394-3 WG1105394-4 QC Sample: L1812210-05 Client ID: RSB10_9-10									
Mercury, Total	ND	0.163	0.200	123	Q	0.201	80-120	0	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11-12 QC Batch ID: WG1105285-4 QC Sample: L1810464-05 Client ID: DUP Sample						
Aluminum, Total	3720	3980	mg/kg	7		20
Antimony, Total	0.758J	0.618J	mg/kg	NC		20
Arsenic, Total	2.40	2.79	mg/kg	15		20
Barium, Total	22.8	19.0	mg/kg	18		20
Beryllium, Total	0.238J	0.218J	mg/kg	NC		20
Cadmium, Total	0.141J	0.118J	mg/kg	NC		20
Calcium, Total	1540	1330	mg/kg	15		20
Chromium, Total	9.51	11.5	mg/kg	19		20
Cobalt, Total	2.69	3.94	mg/kg	38	Q	20
Copper, Total	13.2	18.4	mg/kg	33	Q	20
Iron, Total	7020	8410	mg/kg	18		20
Lead, Total	30.4	42.0	mg/kg	32	Q	20
Magnesium, Total	2050	2250	mg/kg	9		20
Manganese, Total	95.0	97.8	mg/kg	3		20
Nickel, Total	5.61	6.03	mg/kg	7		20
Potassium, Total	969.	1310	mg/kg	30	Q	20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	169.J	150J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11-12 QC Batch ID: WG1105285-4 QC Sample: L1810464-05 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	16.3	17.1	mg/kg	5	20
Zinc, Total	136.	182	mg/kg	29	Q 20

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-01

Client ID: RSB04_6-7

Sample Location: NY, NY

Date Collected: 04/09/18 09:20

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	04/10/18 15:30	04/11/18 10:49	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.962	0.192	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-02
Client ID: RSB04_1-2
Sample Location: NY, NY

Date Collected: 04/09/18 09:50
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	04/10/18 15:30	04/11/18 10:50	1,9010C/9012B	LH
Chromium, Hexavalent	0.311	J	mg/kg	0.889	0.178	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-03

Client ID: RSB04_10-11

Sample Location: NY, NY

Date Collected: 04/09/18 09:55

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.5		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	04/10/18 15:30	04/11/18 10:51	1,9010C/9012B	LH
Chromium, Hexavalent	0.435	J	mg/kg	0.994	0.199	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-04

Client ID: RSB10_1-2

Sample Location: NY, NY

Date Collected: 04/09/18 11:30

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/10/18 15:30	04/11/18 10:52	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.894	0.179	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-05

Client ID: RSB10_9-10

Sample Location: NY, NY

Date Collected: 04/09/18 11:11

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/10/18 15:30	04/11/18 10:53	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.03	0.207	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-06

Client ID: RSB11_8-9

Sample Location: NY, NY

Date Collected: 04/09/18 13:45

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.24	1	04/10/18 15:30	04/11/18 10:56	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.00	0.200	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-07

Date Collected: 04/09/18 14:05

Client ID: RSB11_5-6

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.6		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	04/10/18 15:30	04/11/18 10:57	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.992	0.198	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-08

Client ID: RSB11_1-2

Sample Location: NY, NY

Date Collected: 04/09/18 14:10

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	04/10/18 15:30	04/11/18 11:00	1,9010C/9012B	LH
Chromium, Hexavalent	0.340	J	mg/kg	0.937	0.187	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-09

Client ID: RSB12_1-2

Sample Location: NY, NY

Date Collected: 04/09/18 15:18

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

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	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	04/10/18 15:30	04/11/18 11:01	1,9010C/9012B	LH
Chromium, Hexavalent	0.262	J	mg/kg	0.912	0.182	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-10

Client ID: RSB12_7-8

Sample Location: NY, NY

Date Collected: 04/09/18 14:54

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.2		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.28	1	04/10/18 15:30	04/11/18 11:02	1,9010C/9012B	LH
Chromium, Hexavalent	0.235	J	mg/kg	1.11	0.222	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-11

Client ID: RSB12_5-6

Sample Location: NY, NY

Date Collected: 04/09/18 15:05

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.7		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/10/18 15:30	04/11/18 11:03	1,9010C/9012B	LH
Chromium, Hexavalent	0.862	J	mg/kg	1.03	0.206	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

SAMPLE RESULTS

Lab ID: L1812210-12

Client ID: RSBDUP01_040918

Sample Location: NY, NY

Date Collected: 04/09/18 00:00

Date Received: 04/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	04/10/18 11:30	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/10/18 15:30	04/11/18 11:05	1,9010C/9012B	LH
Chromium, Hexavalent	0.390	J	mg/kg	0.891	0.178	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH



Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1105036-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 11-12 Batch: WG1105040-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	04/10/18 07:15	04/10/18 14:00	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1105167-1									
Cyanide, Total	ND	mg/kg	0.93	0.20	1	04/10/18 15:30	04/11/18 10:38	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 11-12 Batch: WG1105168-1									
Cyanide, Total	ND	mg/kg	0.93	0.20	1	04/10/18 15:30	04/11/18 10:39	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1105036-2								
Chromium, Hexavalent	91		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-12 Batch: WG1105040-2								
Chromium, Hexavalent	91		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1105167-2 WG1105167-3								
Cyanide, Total	72	Q	62	Q	80-120	2		35
General Chemistry - Westborough Lab Associated sample(s): 11-12 Batch: WG1105168-2 WG1105168-3								
Cyanide, Total	74	Q	63	Q	80-120	1		35

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812210
Report Date: 04/17/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1105036-4 WG1105036-5 QC Sample: L1812210-05 Client ID: RSB10_9-10												
Chromium, Hexavalent	ND	1160	1250	108		1820	115		75-125	37	Q	20
General Chemistry - Westborough Lab Associated sample(s): 11-12 QC Batch ID: WG1105040-4 QC Sample: L1812210-11 Client ID: RSB12_5-6												
Chromium, Hexavalent	0.862J	1030	1090	106		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1105167-4 WG1105167-5 QC Sample: L1812210-05 Client ID: RSB10_9-10												
Cyanide, Total	ND	12	11	89		12	93		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 11-12 QC Batch ID: WG1105168-4 WG1105168-5 QC Sample: L1812210-12 Client ID: RSDUP01_040918												
Cyanide, Total	ND	10	8.8	84		9.1	87		75-125	3		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812210

Report Date: 04/17/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1105036-7 QC Sample: L1812210-05 Client ID: RSB10_9-10						
Chromium, Hexavalent	ND	0.220J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11-12 QC Batch ID: WG1105040-6 QC Sample: L1812210-11 Client ID: RSB12_5-6						
Chromium, Hexavalent	0.862J	0.219J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1105127-1 QC Sample: L1812210-05 Client ID: RSB10_9-10						
Solids, Total	77.4	77.1	%	0		20

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04171815:44
Lab Number: L1812210
Report Date: 04/17/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812210-01A	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-01B	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-01C	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-01D	Plastic 2oz unpreserved for TS	B	NA		3.8	Y	Absent		TS(7)
L1812210-01E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),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)
L1812210-01F	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		HEXCR-7196(30)
L1812210-01G	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-01X	Vial MeOH preserved split	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-01Y	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-01Z	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-02A	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-02B	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-02C	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-02D	Plastic 2oz unpreserved for TS	B	NA		3.8	Y	Absent		TS(7)
L1812210-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),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)
L1812210-02F	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		HEXCR-7196(30)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04171815:44
Lab Number: L1812210
Report Date: 04/17/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812210-02G	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-02X	Vial MeOH preserved split	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-02Y	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-02Z	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-03A	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-03B	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-03C	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-03D	Plastic 2oz unpreserved for TS	B	NA		3.8	Y	Absent		TS(7)
L1812210-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),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)
L1812210-03F	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		HEXCR-7196(30)
L1812210-03G	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-03X	Vial MeOH preserved split	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-03Y	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-03Z	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-04A	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-04B	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-04C	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-04D	Plastic 2oz unpreserved for TS	B	NA		3.8	Y	Absent		TS(7)
L1812210-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),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)
L1812210-04F	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		HEXCR-7196(30)
L1812210-04G	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-04X	Vial MeOH preserved split	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812210-04Y	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-04Z	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-05A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-05A1	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-05A2	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-05B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-05B1	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-05B2	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-05C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-05C1	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-05C2	5 gram Encore Sampler	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-05D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1812210-05D1	Plastic 2oz unpreserved for TS	B	NA		3.8	Y	Absent		TS(7)
L1812210-05D2	Plastic 2oz unpreserved for TS	B	NA		3.8	Y	Absent		TS(7)
L1812210-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),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)
L1812210-05E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),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)
L1812210-05E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),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)
L1812210-05F	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L1812210-05F1	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		HEXCR-7196(30)
L1812210-05F2	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		HEXCR-7196(30)
L1812210-05G	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04171815:44
Lab Number: L1812210
Report Date: 04/17/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812210-05G1	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-05G2	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-05X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-05X1	Vial MeOH preserved split	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-05X2	Vial MeOH preserved split	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1812210-05Y	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-05Y1	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-05Y2	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-05Z	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-05Z1	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-05Z2	Vial Water preserved split	B	NA		3.8	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-06A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-06B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-06C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-06D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1812210-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),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)
L1812210-06F	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L1812210-06G	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-06X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-06Y	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-06Z	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-07A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-07B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-07C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-07D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)

Project Name: 4650 BROADWAY

Lab Number: L1812210

Project Number: 170505502

Report Date: 04/17/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812210-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),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)
L1812210-07F	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L1812210-07G	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-07X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-07Y	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-07Z	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-08A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-08B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-08C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-08D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1812210-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),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)
L1812210-08F	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L1812210-08G	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-08X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-08Y	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-08Z	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:25	NYTCL-8260HLW(14)
L1812210-09A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-09B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-09C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-09D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04171815:44
Lab Number: L1812210
Report Date: 04/17/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812210-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),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)
L1812210-09F	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L1812210-09G	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-09X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-09Y	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:50	NYTCL-8260HLW(14)
L1812210-09Z	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:50	NYTCL-8260HLW(14)
L1812210-10A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-10B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-10C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-10D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		BE-TI(180),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)
L1812210-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		ARCHIVE()
L1812210-10F	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L1812210-10G	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1812210-10X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-10Y	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:50	NYTCL-8260HLW(14)
L1812210-10Z	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:50	NYTCL-8260HLW(14)
L1812210-11A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-11B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-11C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-11D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04171815:44
Lab Number: L1812210
Report Date: 04/17/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812210-11E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),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)
L1812210-11F	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L1812210-11G	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-11X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-11Y	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:50	NYTCL-8260HLW(14)
L1812210-11Z	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:50	NYTCL-8260HLW(14)
L1812210-12A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-12B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-12C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-12D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1812210-12E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),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)
L1812210-12F	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L1812210-12G	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1812210-12X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1812210-12Y	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:50	NYTCL-8260HLW(14)
L1812210-12Z	Vial Water preserved split	A	NA		3.3	Y	Absent	10-APR-18 06:50	NYTCL-8260HLW(14)
L1812210-13A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L1812210-13B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)

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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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns has been reported 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.
- S** - Analytical results are from modified screening analysis.
- 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.

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab 4/9/18	ALPHA Job # 11812210			
		1 of					
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables	Billing Information		
Client Information		Project Name: 4650 BROADWAY		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Same as Client Info		
Client: LANGAN		Project Location: NY NY		PO #			
Address: 360 W 31ST STREET 3TH FL		Project # 170505502		Regulatory Requirement			
Phone: 212-479-5400		(Use Project name as Project #) <input type="checkbox"/>		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge			
Fax: 212-479-5449		Project Manager: BILIAN GUCHENAUZ				Disposal Site Information	
Email: ASCHMEDICKE@LANGAN.COM		ALPHAQuote #:					
Turn-Around Time		Standard <input checked="" type="checkbox"/> Due Date:		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
Rush (only if pre approved) <input type="checkbox"/>		# of Days:					
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS			
Other project specific requirements/comments:				Sample Filtration			
Please specify Metals or TAL.							
ALPHA Lab ID (Lab Use Only)				Sample Specific Comments			
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Collection				Sample Matrix			
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Time				Sampler's Initials			
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 <p>NEW YORK CHAIN OF CUSTODY</p>		<p>Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>		Page <u>2</u> of		Date Rec'd in Lab <u>4/9/18</u>		ALPHA Job # <u>L1812210</u>			
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		<p>Project Information</p> Project Name: <u>4650 Broadway</u> Project Location: <u>NY NY</u> Project # <u>170535502</u> (Use Project name as Project #) <input type="checkbox"/>		<p>Deliverables</p> <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		<p>Billing Information</p> <input checked="" type="checkbox"/> Same as Client Info PO #	
<p>Client Information</p> Client: <u>Langer</u> Address: <u>360 W 8th St Fl 8th Fl</u> <u>NY NY 10001</u> Phone: <u>212 479-5400</u> Fax: <u>212 479-5444</u> Email: <u>eschmedicke@langer.com</u>		<p>Project Manager: <u>Brian Gachowicz</u></p> <p>ALPHAQuote #:</p> <p>Turn-Around Time</p> Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<p>Regulatory Requirement</p> <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<p>Disposal Site Information</p> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/>						<p>ANALYSIS</p> <p style="font-size: small; text-align: center;"> Part 375 Vol 300g, PEST, Herb, metals 4x, Hex strong, separate </p>		<p>Sample Filtration</p> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <p>Preservation</p> <input type="checkbox"/> Lab to do (Please Specify below)		T o t a l B o t t l e	
Other project specific requirements/comments:											<p>Sample Specific Comments</p>
Please specify Metals or TAL.											
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix	Sampler's Initials				
		Date	Time								
12210-11		RSB12-5-6		4/9/18	15:05	SD	KG	x	x		
-12		RSBDUP01-040918		4/9/18		SD	KG	x	x		
-13		RSBTB01-040918		4/9/18			KG	x		Trip Blank	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative				Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
		Relinquished By:		Date/Time		Received By:		Date/Time			
		<u>Kevin Garrett</u>		<u>4/9/18 1600</u>		<u>Daniel Fischer AAL</u>		<u>4/9/18 16:00</u>			
		<u>Daniel Fischer AAL</u>		<u>4/9/18 18:15</u>		<u>Daniel Santos AAL</u>		<u>4/9/18 1800</u>			
		<u>Daniel Santos AAL</u>		<u>4/9/18 2250</u>		<u>[Signature]</u>		<u>4/9/18 2320</u>			



ANALYTICAL REPORT

Lab Number:	L1812215
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	04/16/18

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1812215-01	RSV05_040918	SOIL_VAPOR	NY, NY	04/09/18 13:57	04/09/18
L1812215-02	AA01_040918	AIR	NY, NY	04/09/18 14:18	04/09/18
L1812215-03	RSV01_040918	SOIL_VAPOR	NY, NY	04/09/18 14:35	04/09/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 6, 2018. The canister certification results are provided as an addendum.

L1812215-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The WG1106353-3 LCS recovery for bromoform (134%), 1,2,4-trichlorobenzene (149%), 1,2,3-trichlorobenzene (143%) and hexachlorobutadiene (154%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/16/18

AIR

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

SAMPLE RESULTS

Lab ID: L1812215-01 D
 Client ID: RSV05_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 13:57
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/14/18 03:16
 Analyst: GJ

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	ND	1.00	--	ND	2.07	--		5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	ND	1.00	--	ND	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethyl Alcohol	ND	25.0	--	ND	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	6.78	5.00	--	16.1	11.9	--		5
Trichlorofluoromethane	ND	1.00	--	ND	5.62	--		5
iso-Propyl Alcohol	ND	2.50	--	ND	6.15	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
tert-Butyl Alcohol	ND	2.50	--	ND	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	ND	1.00	--	ND	3.11	--		5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	ND	2.50	--	ND	7.37	--		5
cis-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5



Project Name: 4650 BROADWAY**Lab Number:** L1812215**Project Number:** 170505502**Report Date:** 04/16/18**SAMPLE RESULTS**

Lab ID: L1812215-01 D

Date Collected: 04/09/18 13:57

Client ID: RSV05_040918

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5
Chloroform	ND	1.00	--	ND	4.88	--		5
Tetrahydrofuran	ND	2.50	--	ND	7.37	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	ND	1.00	--	ND	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	ND	1.00	--	ND	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
Trichloroethene	ND	1.00	--	ND	5.37	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	ND	1.00	--	ND	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	2.07	1.00	--	7.80	3.77	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Tetrachloroethene	ND	1.00	--	ND	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	ND	1.00	--	ND	4.34	--		5



Project Name: 4650 BROADWAY**Lab Number:** L1812215**Project Number:** 170505502**Report Date:** 04/16/18**SAMPLE RESULTS**

Lab ID: L1812215-01 D

Date Collected: 04/09/18 13:57

Client ID: RSV05_040918

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.23	2.00	--	14.0	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	2.20	1.00	--	9.56	4.34	--		5
4-Ethyltoluene	ND	1.00	--	ND	4.92	--		5
1,3,5-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
1,2,4-Trimethylbenzene	2.08	1.00	--	10.2	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	67		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	80		60-140



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

SAMPLE RESULTS

Lab ID: L1812215-02
 Client ID: AA01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 14:18
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/13/18 18:38
 Analyst: GJ

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.356	0.200	--	1.76	0.989	--		1
Chloromethane	0.542	0.200	--	1.12	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	1.24	0.200	--	2.74	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	19.3	5.00	--	36.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.4	1.00	--	27.1	2.38	--		1
Trichlorofluoromethane	0.208	0.200	--	1.17	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 4650 BROADWAY**Lab Number:** L1812215**Project Number:** 170505502**Report Date:** 04/16/18**SAMPLE RESULTS**

Lab ID: L1812215-02

Date Collected: 04/09/18 14:18

Client ID: AA01_040918

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.12	0.200	--	7.47	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	4.28	0.200	--	13.7	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.705	0.200	--	2.43	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	2.68	0.200	--	12.5	0.934	--		1
Heptane	1.45	0.200	--	5.94	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	9.72	0.200	--	36.6	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	1.65	0.200	--	7.17	0.869	--		1



Project Name: 4650 BROADWAY**Lab Number:** L1812215**Project Number:** 170505502**Report Date:** 04/16/18**SAMPLE RESULTS**

Lab ID: L1812215-02

Date Collected: 04/09/18 14:18

Client ID: AA01_040918

Date Received: 04/09/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	6.68	0.400	--	29.0	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.214	0.200	--	0.911	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.37	0.200	--	10.3	0.869	--		1
4-Ethyltoluene	0.696	0.200	--	3.42	0.983	--		1
1,3,5-Trimethylbenzene	0.734	0.200	--	3.61	0.983	--		1
1,2,4-Trimethylbenzene	2.46	0.200	--	12.1	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

SAMPLE RESULTS

Lab ID: L1812215-03
 Client ID: RSV01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 14:35
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/14/18 03:49
 Analyst: GJ

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.398	0.200	--	1.97	0.989	--		1
Chloromethane	0.210	0.200	--	0.434	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.206	0.200	--	0.456	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	52.0	5.00	--	98.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	18.5	1.00	--	43.9	2.38	--		1
Trichlorofluoromethane	0.206	0.200	--	1.16	1.12	--		1
iso-Propyl Alcohol	8.32	0.500	--	20.5	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	0.772	0.500	--	2.34	1.52	--		1
Methylene chloride	1.66	0.500	--	5.77	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	2.20	0.200	--	6.85	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
2-Butanone	1.51	0.500	--	4.45	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

SAMPLE RESULTS

Lab ID: L1812215-03
 Client ID: RSV01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 14:35
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.38	0.200	--	4.86	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	2.33	0.200	--	7.44	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.867	0.200	--	2.98	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	3.60	0.200	--	19.3	1.07	--		1
2,2,4-Trimethylpentane	1.35	0.200	--	6.31	0.934	--		1
Heptane	1.79	0.200	--	7.34	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.642	0.500	--	2.63	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	10.2	0.200	--	38.4	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	1.96	0.200	--	8.51	0.869	--		1



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

SAMPLE RESULTS

Lab ID: L1812215-03
 Client ID: RSV01_040918
 Sample Location: NY, NY

Date Collected: 04/09/18 14:35
 Date Received: 04/09/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	8.19	0.400	--	35.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.345	0.200	--	1.47	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.95	0.200	--	12.8	0.869	--		1
4-Ethyltoluene	0.569	0.200	--	2.80	0.983	--		1
1,3,5-Trimethylbenzene	0.652	0.200	--	3.21	0.983	--		1
1,2,4-Trimethylbenzene	2.24	0.200	--	11.0	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	78		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	89		60-140



Project Name: 4650 BROADWAY

Lab Number: L1812215

Project Number: 170505502

Report Date: 04/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/13/18 14:55

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1106353-4								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		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
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 4650 BROADWAY

Lab Number: L1812215

Project Number: 170505502

Report Date: 04/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/13/18 14:55

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1106353-4								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-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
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1



Project Name: 4650 BROADWAY

Lab Number: L1812215

Project Number: 170505502

Report Date: 04/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/13/18 14:55

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1106353-4								
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
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	0.500	--	ND	2.05	--		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



Project Name: 4650 BROADWAY

Lab Number: L1812215

Project Number: 170505502

Report Date: 04/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/13/18 14:55

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1106353-4								
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 (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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 (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1



Project Name: 4650 BROADWAY

Lab Number: L1812215

Project Number: 170505502

Report Date: 04/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/13/18 14:55

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1106353-4								
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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812215

Project Number: 170505502

Report Date: 04/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1106353-3								
Chlorodifluoromethane	83		-		70-130	-		
Propylene	93		-		70-130	-		
Propane	72		-		70-130	-		
Dichlorodifluoromethane	86		-		70-130	-		
Chloromethane	90		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	102		-		70-130	-		
Methanol	87		-		70-130	-		
Vinyl chloride	91		-		70-130	-		
1,3-Butadiene	97		-		70-130	-		
Butane	86		-		70-130	-		
Bromomethane	102		-		70-130	-		
Chloroethane	96		-		70-130	-		
Ethyl Alcohol	89		-		70-130	-		
Dichlorofluoromethane	98		-		70-130	-		
Vinyl bromide	106		-		70-130	-		
Acrolein	82		-		70-130	-		
Acetone	117		-		70-130	-		
Acetonitrile	90		-		70-130	-		
Trichlorofluoromethane	111		-		70-130	-		
iso-Propyl Alcohol	78		-		70-130	-		
Acrylonitrile	87		-		70-130	-		
Pentane	82		-		70-130	-		
Ethyl ether	89		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812215

Project Number: 170505502

Report Date: 04/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1106353-3								
1,1-Dichloroethene	98		-		70-130	-		
tert-Butyl Alcohol	88		-		70-130	-		
Methylene chloride	103		-		70-130	-		
3-Chloropropene	95		-		70-130	-		
Carbon disulfide	102		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	106		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	88		-		70-130	-		
Vinyl acetate	96		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	92		-		70-130	-		
Ethyl Acetate	101		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	91		-		70-130	-		
2,2-Dichloropropane	91		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	93		-		70-130	-		
Isopropyl Ether	85		-		70-130	-		
Ethyl-Tert-Butyl-Ether	81		-		70-130	-		
1,1,1-Trichloroethane	90		-		70-130	-		
1,1-Dichloropropene	80		-		70-130	-		
Benzene	93		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812215

Report Date: 04/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1106353-3								
Carbon tetrachloride	106		-		70-130	-		
Cyclohexane	92		-		70-130	-		
Tertiary-Amyl Methyl Ether	79		-		70-130	-		
Dibromomethane	98		-		70-130	-		
1,2-Dichloropropane	94		-		70-130	-		
Bromodichloromethane	109		-		70-130	-		
1,4-Dioxane	92		-		70-130	-		
Trichloroethene	101		-		70-130	-		
2,2,4-Trimethylpentane	95		-		70-130	-		
Methyl Methacrylate	106		-		70-130	-		
Heptane	91		-		70-130	-		
cis-1,3-Dichloropropene	93		-		70-130	-		
4-Methyl-2-pentanone	102		-		70-130	-		
trans-1,3-Dichloropropene	81		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	102		-		70-130	-		
1,3-Dichloropropane	95		-		70-130	-		
2-Hexanone	98		-		70-130	-		
Dibromochloromethane	122		-		70-130	-		
1,2-Dibromoethane	105		-		70-130	-		
Butyl Acetate	85		-		70-130	-		
Octane	94		-		70-130	-		
Tetrachloroethene	104		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812215

Project Number: 170505502

Report Date: 04/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1106353-3								
1,1,1,2-Tetrachloroethane	106		-		70-130	-		
Chlorobenzene	103		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	99		-		70-130	-		
Bromoform	134	Q	-		70-130	-		
Styrene	100		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	106		-		70-130	-		
1,2,3-Trichloropropane	101		-		70-130	-		
Nonane (C9)	94		-		70-130	-		
Isopropylbenzene	106		-		70-130	-		
Bromobenzene	95		-		70-130	-		
o-Chlorotoluene	104		-		70-130	-		
n-Propylbenzene	106		-		70-130	-		
p-Chlorotoluene	99		-		70-130	-		
4-Ethyltoluene	119		-		70-130	-		
1,3,5-Trimethylbenzene	109		-		70-130	-		
tert-Butylbenzene	111		-		70-130	-		
1,2,4-Trimethylbenzene	119		-		70-130	-		
Decane (C10)	96		-		70-130	-		
Benzyl chloride	114		-		70-130	-		
1,3-Dichlorobenzene	117		-		70-130	-		
1,4-Dichlorobenzene	118		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812215

Report Date: 04/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1106353-3								
sec-Butylbenzene	110		-		70-130	-		
p-Isopropyltoluene	104		-		70-130	-		
1,2-Dichlorobenzene	117		-		70-130	-		
n-Butylbenzene	110		-		70-130	-		
1,2-Dibromo-3-chloropropane	114		-		70-130	-		
Undecane	104		-		70-130	-		
Dodecane (C12)	129		-		70-130	-		
1,2,4-Trichlorobenzene	149	Q	-		70-130	-		
Naphthalene	121		-		70-130	-		
1,2,3-Trichlorobenzene	143	Q	-		70-130	-		
Hexachlorobutadiene	154	Q	-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812215

Report Date: 04/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1106353-5 QC Sample: L1812028-03 Client ID: DUP Sample						
Dichlorodifluoromethane	0.451	0.433	ppbV	4		25
Chloromethane	0.511	0.486	ppbV	5		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	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	3.47	3.39	ppbV	2		25
Trichlorofluoromethane	0.244	0.248	ppbV	2		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	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	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812215

Report Date: 04/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1106353-5 QC Sample: L1812028-03 Client ID: DUP Sample						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		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	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	ND	ND	ppbV	NC		25
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	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812215

Report Date: 04/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1106353-5 QC Sample: L1812028-03 Client ID: DUP Sample						
p/m-Xylene	ND	ND	ppbV	NC		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	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
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
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: 4650 BROADWAY

Project Number: 170505502

Serial_No:04161813:59
Lab Number: L1812215

Report Date: 04/16/18

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
L1812215-01	RSV05_040918	0014	Flow 3	04/06/18	262856		-	-	-	Pass	18.0	18.5	3
L1812215-01	RSV05_040918	2013	2.7L Can	04/06/18	262856	L1811545-01	Pass	-30.0	-2.3	-	-	-	-
L1812215-02	AA01_040918	0401	Flow 3	04/06/18	262856		-	-	-	Pass	17.8	17.5	2
L1812215-02	AA01_040918	2424	2.7L Can	04/06/18	262856	L1811545-01	Pass	-30.0	-4.9	-	-	-	-
L1812215-03	RSV01_040918	0931	Flow 3	04/06/18	262856		-	-	-	Pass	18.0	17.0	6
L1812215-03	RSV01_040918	237	2.7L Can	04/06/18	262856	L1811545-01	Pass	-29.6	-5.1	-	-	-	-

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

Lab Number: L1811545
Report Date: 04/16/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/04/18 22:08
 Analyst: MB

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	0.500	--	ND	0.902	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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

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

Lab Number: L1811545
Report Date: 04/16/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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

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

Lab Number: L1811545
Report Date: 04/16/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
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	0.500	--	ND	2.05	--		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



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

Lab Number: L1811545
Report Date: 04/16/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
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



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

Lab Number: L1811545
Report Date: 04/16/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	80		60-140



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

Lab Number: L1811545
Report Date: 04/16/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/04/18 22:08
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		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	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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: L1811545
Report Date: 04/16/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



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

Lab Number: L1811545
Report Date: 04/16/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	79		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	80		60-140



Project Name: 4650 BROADWAY

Project Number: 170505502

Serial_No:04161813:59

Lab Number: L1812215

Report Date: 04/16/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**

N/A Absent

Container Information

Container ID **Container Type**

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
N/A	NA			Y	Absent		TO15-LL(30)
N/A	NA			Y	Absent		TO15-LL(30)
N/A	NA			Y	Absent		TO15-LL(30)

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns has been reported 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.
- S** - Analytical results are from modified screening analysis.
- 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: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812215
Report Date: 04/16/18

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



AIR ANALYSIS

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

PAGE 1 OF

Date Rec'd in Lab: 4/9/18

ALPHA Job #: 4812215

Client Information

Client: LANGAN
 Address: 300 W 31ST STREET, 8TH FL
NY NY 10001
 Phone: 212-474-5400
 Fax: 212-479-5444
 Email: ANCHMIG@LANGAN.COM

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

Project Information

Project Name: 4650 BROADWAY
 Project Location: NY NY
 Project #: 170505502
 Project Manager: BRIAN GUCHENAVE
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

FAX
 ADEx
 Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
 Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables:
ASP +
 Report to: (if different than Project Manager)

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

ANALYSIS

TO-15
 TO-15 SIM
 APH Substrate Non-petroleum HCs
 Fixed Gases
 Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
<u>12215.01</u>	<u>RSV05_040918</u>	<u>4/9/18</u>	<u>1157</u>	<u>1357</u>	<u>-30.27</u>	<u>-3.80</u>	<u>SV</u>	<u>KG</u>	<u>2.7L</u>	<u>2013</u>	<u>0014</u>	<u>X</u>					
<u>.02</u>	<u>AA01_040918</u>	<u>4/9/18</u>	<u>1218</u>	<u>1418</u>	<u>-27.91</u>	<u>-5.98</u>	<u>AA</u>	<u>KG</u>	<u>2.7L</u>	<u>242</u>	<u>0401</u>	<u>X</u>					
<u>.03</u>	<u>RSV01_040918</u>	<u>4/9/18</u>	<u>1234</u>	<u>1435</u>	<u>-30.19</u>	<u>-6.06</u>	<u>SV</u>	<u>KG</u>	<u>2.7L</u>	<u>237</u>	<u>0931</u>	<u>X</u>					

***SAMPLE MATRIX CODES**

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Kenn Gesehl</u>	<u>4/9/18 16:00</u>	<u>Daniel Fischer AAL</u>	<u>4/9/18 16:00</u>
<u>Daniel Fischer AAL</u>	<u>4/9/18 18:15</u>	<u>Daniel Santos AAL</u>	<u>4/9/18 18:40</u>
<u>Daniel Santos AAL</u>	<u>4/9/18 22:30</u>	<u>Michael</u>	<u>4/9/18 22:30</u>



ANALYTICAL REPORT

Lab Number:	L1812404
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Anna Schmiedicke
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	04/25/18

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-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1812404-01	RSV03_041018	SOIL_VAPOR	NEW YORK, NY	04/10/18 13:16	04/10/18
L1812404-02	RSV02_041018	SOIL_VAPOR	NEW YORK, NY	04/10/18 11:02	04/10/18
L1812404-03	UNUSED CAN #115	SOIL_VAPOR	NEW YORK, NY		04/10/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

Case Narrative (continued)

Report Submission

This report replaces the one previously issued on April 18, 2018. The report has been revised to change the project number.

Volatile Organics in Air

Canisters were released from the laboratory on April 6, 2018. The canister certification results are provided as an addendum.

The samples designated RSV03_041018 (L1812404-01) and RSV02_041018 (L1812404-02) required a dilution greater than 4X; based on direction from the client the New York Decision Matrix Compounds have been reported by TO15-SIM for these samples.

L1812404-01 and -02: The samples have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

L1812404-01 and -02: The samples have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

The WG1106940-3 LCS recoveries for 1,2,4-trichlorobenzene (145%), 1,2,3-trichlorobenzene (131%) and hexachlorobutadiene (146%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/25/18

AIR

Project Name: 4650 BROADWAY**Lab Number:** L1812404**Project Number:** 170505502**Report Date:** 04/25/18**SAMPLE RESULTS**

Lab ID: L1812404-01 D

Date Collected: 04/10/18 13:16

Client ID: RSV03_041018

Date Received: 04/10/18

Sample Location: NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 04/17/18 01:45

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	ND	1.00	--	ND	2.07	--		5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	ND	1.00	--	ND	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethyl Alcohol	41.0	25.0	--	77.3	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	48.6	5.00	--	115	11.9	--		5
Trichlorofluoromethane	ND	1.00	--	ND	5.62	--		5
iso-Propyl Alcohol	ND	2.50	--	ND	6.15	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
tert-Butyl Alcohol	4.04	2.50	--	12.2	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	ND	1.00	--	ND	3.11	--		5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	ND	2.50	--	ND	7.37	--		5
cis-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1812404-01 D
 Client ID: RSV03_041018
 Sample Location: NEW YORK, NY

Date Collected: 04/10/18 13:16
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5
Chloroform	36.7	1.00	--	179	4.88	--		5
Tetrahydrofuran	ND	2.50	--	ND	7.37	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	ND	1.00	--	ND	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	ND	1.00	--	ND	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
Trichloroethene	ND	1.00	--	ND	5.37	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	ND	1.00	--	ND	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	2.15	1.00	--	8.10	3.77	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Tetrachloroethene	ND	1.00	--	ND	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	1.01	1.00	--	4.39	4.34	--		5



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1812404-01 D
 Client ID: RSV03_041018
 Sample Location: NEW YORK, NY

Date Collected: 04/10/18 13:16
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	4.18	2.00	--	18.2	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	2.28	1.00	--	9.90	4.34	--		5
4-Ethyltoluene	1.00	1.00	--	4.92	4.92	--		5
1,3,5-Trimethylbenzene	1.28	1.00	--	6.29	4.92	--		5
1,2,4-Trimethylbenzene	3.89	1.00	--	19.1	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	77		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	82		60-140



Project Name: 4650 BROADWAY**Lab Number:** L1812404**Project Number:** 170505502**Report Date:** 04/25/18**SAMPLE RESULTS**

Lab ID: L1812404-01 D

Date Collected: 04/10/18 13:16

Client ID: RSV03_041018

Date Received: 04/10/18

Sample Location: NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/17/18 01:45

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.100	--	ND	0.256	--		5
1,1-Dichloroethene	ND	0.100	--	ND	0.396	--		5
cis-1,2-Dichloroethene	ND	0.100	--	ND	0.396	--		5
1,1,1-Trichloroethane	0.125	0.100	--	0.682	0.546	--		5
Carbon tetrachloride	ND	0.100	--	ND	0.629	--		5
Trichloroethene	ND	0.100	--	ND	0.537	--		5
Tetrachloroethene	0.485	0.100	--	3.29	0.678	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	79		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	88		60-140

Project Name: 4650 BROADWAY**Lab Number:** L1812404**Project Number:** 170505502**Report Date:** 04/25/18**SAMPLE RESULTS**

Lab ID: L1812404-02 D

Date Collected: 04/10/18 11:02

Client ID: RSV02_041018

Date Received: 04/10/18

Sample Location: NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 04/17/18 02:15

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	ND	1.00	--	ND	2.07	--		5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	ND	1.00	--	ND	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethyl Alcohol	ND	25.0	--	ND	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	29.0	5.00	--	68.9	11.9	--		5
Trichlorofluoromethane	ND	1.00	--	ND	5.62	--		5
iso-Propyl Alcohol	ND	2.50	--	ND	6.15	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
tert-Butyl Alcohol	ND	2.50	--	ND	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	1.46	1.00	--	4.55	3.11	--		5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	ND	2.50	--	ND	7.37	--		5
cis-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1812404-02 D
 Client ID: RSV02_041018
 Sample Location: NEW YORK, NY

Date Collected: 04/10/18 11:02
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5
Chloroform	ND	1.00	--	ND	4.88	--		5
Tetrahydrofuran	ND	2.50	--	ND	7.37	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	ND	1.00	--	ND	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	ND	1.00	--	ND	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
Trichloroethene	ND	1.00	--	ND	5.37	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	ND	1.00	--	ND	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	1.62	1.00	--	6.10	3.77	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Tetrachloroethene	ND	1.00	--	ND	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	ND	1.00	--	ND	4.34	--		5



Project Name: 4650 BROADWAY**Lab Number:** L1812404**Project Number:** 170505502**Report Date:** 04/25/18**SAMPLE RESULTS**

Lab ID: L1812404-02 D

Date Collected: 04/10/18 11:02

Client ID: RSV02_041018

Date Received: 04/10/18

Sample Location: NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.28	2.00	--	9.90	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	1.34	1.00	--	5.82	4.34	--		5
4-Ethyltoluene	ND	1.00	--	ND	4.92	--		5
1,3,5-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
1,2,4-Trimethylbenzene	2.18	1.00	--	10.7	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	64		60-140
Bromochloromethane	73		60-140
chlorobenzene-d5	77		60-140



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1812404-02 D
 Client ID: RSV02_041018
 Sample Location: NEW YORK, NY

Date Collected: 04/10/18 11:02
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/17/18 02:15
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.100	--	ND	0.256	--		5
1,1-Dichloroethene	ND	0.100	--	ND	0.396	--		5
cis-1,2-Dichloroethene	ND	0.100	--	ND	0.396	--		5
1,1,1-Trichloroethane	ND	0.100	--	ND	0.546	--		5
Carbon tetrachloride	ND	0.100	--	ND	0.629	--		5
Trichloroethene	0.105	0.100	--	0.564	0.537	--		5
Tetrachloroethene	0.165	0.100	--	1.12	0.678	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	67		60-140
bromochloromethane	75		60-140
chlorobenzene-d5	82		60-140



Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1106940-4								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		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
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1106940-4								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-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
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1



Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1106940-4								
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
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	0.500	--	ND	2.05	--		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

Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1106940-4								
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 (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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 (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1



Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1106940-4								
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: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1107528-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1

Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1107528-4								
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		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
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
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
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	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
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1107528-4								
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		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
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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



Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1107528-4								
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1106940-3								
Chlorodifluoromethane	87		-		70-130	-		
Propylene	100		-		70-130	-		
Propane	82		-		70-130	-		
Dichlorodifluoromethane	93		-		70-130	-		
Chloromethane	95		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	104		-		70-130	-		
Methanol	97		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	106		-		70-130	-		
Butane	83		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	95		-		70-130	-		
Ethyl Alcohol	105		-		70-130	-		
Dichlorofluoromethane	98		-		70-130	-		
Vinyl bromide	100		-		70-130	-		
Acrolein	86		-		70-130	-		
Acetone	125		-		70-130	-		
Acetonitrile	91		-		70-130	-		
Trichlorofluoromethane	106		-		70-130	-		
iso-Propyl Alcohol	89		-		70-130	-		
Acrylonitrile	93		-		70-130	-		
Pentane	88		-		70-130	-		
Ethyl ether	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1106940-3								
1,1-Dichloroethene	97		-		70-130	-		
tert-Butyl Alcohol	92		-		70-130	-		
Methylene chloride	107		-		70-130	-		
3-Chloropropene	103		-		70-130	-		
Carbon disulfide	100		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	86		-		70-130	-		
Vinyl acetate	102		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	87		-		70-130	-		
Ethyl Acetate	100		-		70-130	-		
Chloroform	99		-		70-130	-		
Tetrahydrofuran	88		-		70-130	-		
2,2-Dichloropropane	87		-		70-130	-		
1,2-Dichloroethane	95		-		70-130	-		
n-Hexane	97		-		70-130	-		
Isopropyl Ether	89		-		70-130	-		
Ethyl-Tert-Butyl-Ether	81		-		70-130	-		
1,1,1-Trichloroethane	101		-		70-130	-		
1,1-Dichloropropene	85		-		70-130	-		
Benzene	91		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1106940-3								
Carbon tetrachloride	109		-		70-130	-		
Cyclohexane	94		-		70-130	-		
Tertiary-Amyl Methyl Ether	84		-		70-130	-		
Dibromomethane	98		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	111		-		70-130	-		
1,4-Dioxane	106		-		70-130	-		
Trichloroethene	105		-		70-130	-		
2,2,4-Trimethylpentane	107		-		70-130	-		
Methyl Methacrylate	116		-		70-130	-		
Heptane	101		-		70-130	-		
cis-1,3-Dichloropropene	95		-		70-130	-		
4-Methyl-2-pentanone	107		-		70-130	-		
trans-1,3-Dichloropropene	84		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	98		-		70-130	-		
1,3-Dichloropropane	92		-		70-130	-		
2-Hexanone	114		-		70-130	-		
Dibromochloromethane	119		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		
Butyl Acetate	84		-		70-130	-		
Octane	89		-		70-130	-		
Tetrachloroethene	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1106940-3								
1,1,1,2-Tetrachloroethane	102		-		70-130	-		
Chlorobenzene	100		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	101		-		70-130	-		
Bromoform	125		-		70-130	-		
Styrene	96		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	102		-		70-130	-		
1,2,3-Trichloropropane	99		-		70-130	-		
Nonane (C9)	99		-		70-130	-		
Isopropylbenzene	98		-		70-130	-		
Bromobenzene	97		-		70-130	-		
o-Chlorotoluene	97		-		70-130	-		
n-Propylbenzene	100		-		70-130	-		
p-Chlorotoluene	98		-		70-130	-		
4-Ethyltoluene	114		-		70-130	-		
1,3,5-Trimethylbenzene	104		-		70-130	-		
tert-Butylbenzene	107		-		70-130	-		
1,2,4-Trimethylbenzene	115		-		70-130	-		
Decane (C10)	102		-		70-130	-		
Benzyl chloride	124		-		70-130	-		
1,3-Dichlorobenzene	118		-		70-130	-		
1,4-Dichlorobenzene	115		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812404

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1106940-3								
sec-Butylbenzene	104		-		70-130	-		
p-Isopropyltoluene	103		-		70-130	-		
1,2-Dichlorobenzene	115		-		70-130	-		
n-Butylbenzene	110		-		70-130	-		
1,2-Dibromo-3-chloropropane	114		-		70-130	-		
Undecane	112		-		70-130	-		
Dodecane (C12)	132	Q	-		70-130	-		
1,2,4-Trichlorobenzene	145	Q	-		70-130	-		
Naphthalene	118		-		70-130	-		
1,2,3-Trichlorobenzene	131	Q	-		70-130	-		
Hexachlorobutadiene	146	Q	-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1107528-3								
Propylene	77		-		70-130	-		25
Dichlorodifluoromethane	106		-		70-130	-		25
Chloromethane	83		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	100		-		70-130	-		25
Vinyl chloride	91		-		70-130	-		25
1,3-Butadiene	96		-		70-130	-		25
Bromomethane	100		-		70-130	-		25
Chloroethane	87		-		70-130	-		25
Ethyl Alcohol	93		-		70-130	-		25
Vinyl bromide	101		-		70-130	-		25
Acetone	118		-		70-130	-		25
Trichlorofluoromethane	106		-		70-130	-		25
iso-Propyl Alcohol	93		-		70-130	-		25
Acrylonitrile	84		-		70-130	-		25
1,1-Dichloroethene	96		-		70-130	-		25
tert-Butyl Alcohol ¹	87		-		70-130	-		25
Methylene chloride	106		-		70-130	-		25
3-Chloropropene	106		-		70-130	-		25
Carbon disulfide	97		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		-		70-130	-		25
trans-1,2-Dichloroethene	87		-		70-130	-		25
1,1-Dichloroethane	90		-		70-130	-		25
Methyl tert butyl ether	77		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812404

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1107528-3								
Vinyl acetate	95		-		70-130	-		25
2-Butanone	91		-		70-130	-		25
cis-1,2-Dichloroethene	83		-		70-130	-		25
Ethyl Acetate	97		-		70-130	-		25
Chloroform	98		-		70-130	-		25
Tetrahydrofuran	84		-		70-130	-		25
1,2-Dichloroethane	93		-		70-130	-		25
n-Hexane	92		-		70-130	-		25
1,1,1-Trichloroethane	102		-		70-130	-		25
Benzene	89		-		70-130	-		25
Carbon tetrachloride	107		-		70-130	-		25
Cyclohexane	89		-		70-130	-		25
Dibromomethane ¹	88		-		70-130	-		25
1,2-Dichloropropane	95		-		70-130	-		25
Bromodichloromethane	106		-		70-130	-		25
1,4-Dioxane	96		-		70-130	-		25
Trichloroethene	95		-		70-130	-		25
2,2,4-Trimethylpentane	96		-		70-130	-		25
cis-1,3-Dichloropropene	91		-		70-130	-		25
4-Methyl-2-pentanone	114		-		70-130	-		25
trans-1,3-Dichloropropene	80		-		70-130	-		25
1,1,2-Trichloroethane	99		-		70-130	-		25
Toluene	95		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812404

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1107528-3								
2-Hexanone	119		-		70-130	-		25
Dibromochloromethane	127		-		70-130	-		25
1,2-Dibromoethane	108		-		70-130	-		25
Tetrachloroethene	107		-		70-130	-		25
1,1,1,2-Tetrachloroethane	105		-		70-130	-		25
Chlorobenzene	105		-		70-130	-		25
Ethylbenzene	93		-		70-130	-		25
p/m-Xylene	102		-		70-130	-		25
Bromoform	130		-		70-130	-		25
Styrene	98		-		70-130	-		25
1,1,2,2-Tetrachloroethane	115		-		70-130	-		25
o-Xylene	102		-		70-130	-		25
1,2,3-Trichloropropane ¹	105		-		70-130	-		25
Isopropylbenzene	96		-		70-130	-		25
Bromobenzene ¹	99		-		70-130	-		25
4-Ethyltoluene	118		-		70-130	-		25
1,3,5-Trimethylbenzene	109		-		70-130	-		25
1,2,4-Trimethylbenzene	118		-		70-130	-		25
Benzyl chloride	123		-		70-130	-		25
1,3-Dichlorobenzene	123		-		70-130	-		25
1,4-Dichlorobenzene	122		-		70-130	-		25
sec-Butylbenzene	109		-		70-130	-		25
p-Isopropyltoluene	93		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812404

Report Date: 04/25/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1107528-3								
1,2-Dichlorobenzene	124		-		70-130	-		25
n-Butylbenzene	118		-		70-130	-		25
1,2,4-Trichlorobenzene	151	Q	-		70-130	-		25
Naphthalene	117		-		70-130	-		25
1,2,3-Trichlorobenzene	145	Q	-		70-130	-		25
Hexachlorobutadiene	152	Q	-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812404

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1106940-5 QC Sample: L1813082-02 Client ID: DUP Sample						
Dichlorodifluoromethane	29.7	25.1	ppbV	17		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	0.235	0.229	ppbV	3		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	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	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: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812404

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1106940-5 QC Sample: L1813082-02 Client ID: DUP Sample						
2-Butanone	0.570	0.558	ppbV	2		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	2.70	2.64	ppbV	2		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.601	0.545	ppbV	10		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	0.857	0.877	ppbV	2		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	0.218	0.223	ppbV	2		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	2.03	1.87	ppbV	8		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812404

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1106940-5 QC Sample: L1813082-02 Client ID: DUP Sample						
Toluene	1.73	1.57	ppbV	10		25
2-Hexanone	0.523	0.502	ppbV	4		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	0.337	0.318	ppbV	6		25
p/m-Xylene	1.98	1.75	ppbV	12		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	0.626	0.567	ppbV	10		25
4-Ethyltoluene	0.223	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	0.260	0.231	ppbV	12		25
1,2,4-Trimethylbenzene	0.917	0.903	ppbV	2		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	0.246	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812404

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1107528-5 QC Sample: L1800004-107 Client ID: DUP Sample						
Vinyl chloride	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Acetone	17.6	18.5	ppbV	5		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	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
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	0.048	0.048	ppbV	0		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.192	0.187	ppbV	3		25
Carbon tetrachloride	0.087	0.092	ppbV	6		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812404

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1107528-5 QC Sample: L1800004-107 Client ID: DUP Sample						
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.565	0.611	ppbV	8		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.193	0.214	ppbV	10		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.074	0.074	ppbV	0		25
p/m-Xylene	0.218	0.234	ppbV	7		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	0.074	0.084	ppbV	13		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

Project Name: 4650 BROADWAY

Project Number: 170505502

Serial_No:04251818:04
Lab Number: L1812404

Report Date: 04/25/18

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
L1812404-01	RSV03_041018	334	2.7L Can	04/06/18	262856	L1811366-01	Pass	-30.0	-3.9	-	-	-	-
L1812404-02	RSV02_041018	0242	Flow 4	04/06/18	262856		-	-	-	Pass	18.0	17.9	1
L1812404-02	RSV02_041018	2430	2.7L Can	04/06/18	262856	L1811545-01	Pass	-30.0	-5.1	-	-	-	-
L1812404-03	UNUSED CAN #115	0972	Flow 3	04/06/18	262856		-	-	-	Pass	18.0	17.8	1

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

Lab Number: L1811366
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811366-01
Client ID: CAN 2392 SHELF 2
Sample Location:

Date Collected: 04/02/18 09:00
Date Received: 04/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 04/03/18 18:07
Analyst: MB

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	0.500	--	ND	0.902	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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



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

Lab Number: L1811366
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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



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

Lab Number: L1811366
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
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	0.500	--	ND	2.05	--		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



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

Lab Number: L1811366
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
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



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

Lab Number: L1811366
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140



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

Lab Number: L1811366
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/03/18 18:07
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		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	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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: L1811366
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



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

Lab Number: L1811366
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	93		60-140

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

Lab Number: L1811545
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/04/18 22:08
 Analyst: MB

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	0.500	--	ND	0.902	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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

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

Lab Number: L1811545
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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

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

Lab Number: L1811545
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
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	0.500	--	ND	2.05	--		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

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

Lab Number: L1811545
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
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



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

Lab Number: L1811545
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	80		60-140



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

Lab Number: L1811545
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811545-01
Client ID: CAN 384 SHELF 3
Sample Location:

Date Collected: 04/03/18 16:00
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/04/18 22:08
Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		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	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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: L1811545
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



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

Lab Number: L1811545
Report Date: 04/25/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	79		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	80		60-140

Project Name: 4650 BROADWAY

Project Number: 170505502

Serial_No:04251818:04

Lab Number: L1812404

Report Date: 04/25/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**

N/A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812404-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1812404-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1812404-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		CLEAN-FEE()

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns has been reported 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.
- S** - Analytical results are from modified screening analysis.
- 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: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812404
Report Date: 04/25/18

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



AIR ANALYSIS

PAGE _____ OF _____

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: UGSO Broadway
 Project Location: NY, NY
 Project #: 170505502
 Project Manager:
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: _____ Time: _____

Date Rec'd in Lab: 4/11/18

Report Information - Data Deliverables

FAX
 ADEX
 Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
 Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: ASP-B
 Report to: (if different than Project Manager)

ALPHA Job #: L1812404

Billing Information

Same as Client info PO #: _____

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Client Information

Client: Layan
 Address: 360 W 31st St 8th Fl
MM NY 10001
 Phone: 212 479 5400
 Fax:
 Email: aschmedrke@layan.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH <small>Subject Mercaptans HCl</small>	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
<u>12404.01</u>	<u>R5V03_041018</u>	<u>4/10/18</u>	<u>11:12</u>	<u>13:16</u>	<u>-30.58</u>	<u>-2.55</u>	<u>SV</u>	<u>K6</u>	<u>2.7L</u>	<u>334</u>	<u>242</u>	<u>x</u>						
<u>.02</u>	<u>R5V02_041018</u>	<u>4/10/18</u>	<u>9:02</u>	<u>11:02</u>	<u>-30.32</u>	<u>-6.44</u>	<u>SV</u>	<u>K6</u>	<u>2.7L</u>	<u>2430</u>	<u>0972</u>	<u>x</u>						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
<u>Kevin G...</u>	<u>04/10/18 16:23</u>	<u>[Signature]</u>	<u>4/10/18 16:23</u>
<u>[Signature]</u>	<u>0300</u>	<u>[Signature]</u>	<u>0300</u>
<u>[Signature]</u>	<u>04/11/18 0525</u>	<u>[Signature]</u>	<u>4/11/18 0525</u>

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.



AIR ANALYSIS

PAGE _____ OF _____

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: 4650 Broadway

Project Location: NY, NY

Project #: 170505501

Project Manager:

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: _____ Time: _____

Date Rec'd in Lab: 4/11/18

Report Information - Data Deliverables

FAX
 ADEx
 Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)

Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:

Report to: (if different than Project Manager)

ALPHA Job #: L1812404

Billing Information

Same as Client Info PO #: _____

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Client Information

Client: Layn
 Address: 360 W 31st St 8th Fl
NY NY 10001
 Phone: 2124795400

Fax: _____
 Email: aschmiedtke@layn.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15 TO-15 SIM	APH Subtract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
<u>12404.01</u>	<u>RSV03_041018</u>	<u>4/10/18</u>	<u>11:12</u>	<u>13:16</u>	<u>-30.58</u>	<u>-2.55</u>	<u>SV</u>	<u>K6</u>	<u>2.7L</u>	<u>334</u>	<u>242</u>	<u>x</u>					
<u>.02</u>	<u>RSV02041018</u>	<u>4/10/18</u>	<u>9:02</u>	<u>11:02</u>	<u>-30.32</u>	<u>-6.44</u>	<u>SV</u>	<u>K6</u>	<u>2.7L</u>	<u>2430</u>	<u>0972</u>	<u>x</u>					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

Relinquished By: Kevin Gubb Date/Time: 04/10/18 16:23
4/11/18 0300
4/11/18 0525

Received By: Kevin Gubb Date/Time: 4/11/18 16:23
4/11/18 0300
4/11/18 0525

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L1812435
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	04/19/18

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1812435-01	RSB05_0-1	SOIL	NY, NY	04/10/18 14:24	04/10/18
L1812435-02	RSB05_6-7	SOIL	NY, NY	04/10/18 14:31	04/10/18
L1812435-03	RSB06_1-2	SOIL	NY, NY	04/10/18 09:32	04/10/18
L1812435-04	RSB06_7-8	SOIL	NY, NY	04/10/18 09:40	04/10/18
L1812435-05	RSB07_1-2	SOIL	NY, NY	04/10/18 10:36	04/10/18
L1812435-06	RSB07_7-8	SOIL	NY, NY	04/10/18 10:29	04/10/18
L1812435-07	RSB08_1-2	SOIL	NY, NY	04/10/18 12:08	04/10/18
L1812435-08	RSB08_7-8	SOIL	NY, NY	04/10/18 12:23	04/10/18
L1812435-09	RSB08_14-15	SOIL	NY, NY	04/10/18 12:15	04/10/18
L1812435-10	RSB13_1-2	SOIL	NY, NY	04/10/18 11:23	04/10/18
L1812435-11	RSB13_7-8	SOIL	NY, NY	04/10/18 11:28	04/10/18
L1812435-12	RSB14_1-2	SOIL	NY, NY	04/10/18 13:45	04/10/18
L1812435-13	RSB14_10-11	SOIL	NY, NY	04/10/18 13:31	04/10/18
L1812435-14	RSB14_7-8	SOIL	NY, NY	04/10/18 13:39	04/10/18
L1812435-15	RSB15_0-1	SOIL	NY, NY	04/10/18 08:24	04/10/18
L1812435-16	RSB15_11-12	SOIL	NY, NY	04/10/18 08:42	04/10/18
L1812435-17	RSB15_7-8	SOIL	NY, NY	04/10/18 08:34	04/10/18
L1812435-18	RSBFB01_041018	WATER	NY, NY	04/10/18 00:00	04/10/18
L1812435-19	RSBTB02_041018	WATER	NY, NY	04/10/18 00:00	04/10/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

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

The WG1106150-5 Method Blank, associated with L1812435-01 through -17, has a concentration above the reporting limit for bromomethane. Since the sample(s) were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Total Metals

L1812435-01 through -17: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1105788 CCV recovery, associated with L1812435-02 through -08, was above the acceptance criteria for selenium. Any associated samples with positive detections were re-analyzed under a passing CCV. The samples that were non-detect for this element are reporting results from the original analyses.

The WG1105674-3 MS recoveries for aluminum (129%), calcium (503%), iron (4720%) and manganese (386%), performed on L1812435-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1105674-3 MS recovery, performed on L1812435-01, is outside the acceptance criteria for magnesium (131%). A post digestion spike was performed and yielded an unacceptable recovery of 56%. This has been attributed to sample matrix.

The WG1105674-4 Laboratory Duplicate RPDs for barium (29%), calcium (58%), cobalt (26%), manganese (65%), nickel (55%) and sodium (24%), performed on L1812435-01, are outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1105534-2/-3 LCS/LCSD recoveries (53%/37%), associated with L1812435-01 through -05, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Case Narrative (continued)

original analyses are reported.

The WG1105573-2/-3 LCS/LCSD recoveries (63%/77%), associated with L1812435-06 through -11, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1105574-2/-3 LCS/LCSD recoveries (63%/77%), associated with L1812435-12 through -17, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses 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:

 Cristin Walker

Title: Technical Director/Representative

Date: 04/19/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01
 Client ID: RSB05_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 14:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 19:30
 Analyst: MKS
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.3	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.38	1
Chloroform	ND		ug/kg	2.1	0.52	1
Carbon tetrachloride	ND		ug/kg	1.4	0.48	1
1,2-Dichloropropane	ND		ug/kg	4.9	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.44	1
Tetrachloroethene	ND		ug/kg	1.4	0.42	1
Chlorobenzene	ND		ug/kg	1.4	0.49	1
Trichlorofluoromethane	ND		ug/kg	7.0	0.58	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.49	1
Bromodichloromethane	ND		ug/kg	1.4	0.43	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.29	1
1,1-Dichloropropene	ND		ug/kg	7.0	0.46	1
Bromoform	ND		ug/kg	5.6	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.42	1
Benzene	ND		ug/kg	1.4	0.27	1
Toluene	ND		ug/kg	2.1	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.24	1
Chloromethane	ND		ug/kg	7.0	0.61	1
Bromomethane	ND		ug/kg	2.8	0.47	1
Vinyl chloride	ND		ug/kg	2.8	0.44	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.52	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.34	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01

Date Collected: 04/10/18 14:24

Client ID: RSB05_0-1

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.42	1
1,2-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	7.0	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.21	1
p/m-Xylene	ND		ug/kg	2.8	0.49	1
o-Xylene	ND		ug/kg	2.8	0.47	1
Xylenes, Total	ND		ug/kg	2.8	0.47	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.48	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.34	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.8	0.56	1
Dichlorodifluoromethane	ND		ug/kg	14	0.70	1
Acetone	ND		ug/kg	14	3.2	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.96	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.25	1
2-Hexanone	ND		ug/kg	14	0.93	1
Bromochloromethane	ND		ug/kg	7.0	0.50	1
2,2-Dichloropropane	ND		ug/kg	7.0	0.63	1
1,2-Dibromoethane	ND		ug/kg	5.6	0.28	1
1,3-Dichloropropane	ND		ug/kg	7.0	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	7.0	0.31	1
n-Butylbenzene	ND		ug/kg	1.4	0.32	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	7.0	0.34	1
o-Chlorotoluene	ND		ug/kg	7.0	0.31	1
p-Chlorotoluene	ND		ug/kg	7.0	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.0	0.55	1
Hexachlorobutadiene	ND		ug/kg	7.0	0.49	1
Isopropylbenzene	ND		ug/kg	1.4	0.27	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	ND		ug/kg	7.0	0.19	1
Acrylonitrile	ND		ug/kg	14	0.72	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01
Client ID: RSB05_0-1
Sample Location: NY, NY

Date Collected: 04/10/18 14:24
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.0	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.0	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.0	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.0	0.26	1
1,4-Dioxane	ND		ug/kg	56	20.	1
p-Diethylbenzene	ND		ug/kg	5.6	5.6	1
p-Ethyltoluene	ND		ug/kg	5.6	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.6	0.22	1
Ethyl ether	ND		ug/kg	7.0	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	0.55	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02
 Client ID: RSB05_6-7
 Sample Location: NY, NY

Date Collected: 04/10/18 14:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 19:56
 Analyst: MKS
 Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.38	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.44	1
Bromodichloromethane	ND		ug/kg	1.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.42	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.24	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.4	0.55	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.40	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.31	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02

Date Collected: 04/10/18 14:31

Client ID: RSB05_6-7

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.43	1
Xylenes, Total	ND		ug/kg	2.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.43	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.31	1
Dibromomethane	ND		ug/kg	13	0.30	1
Styrene	ND		ug/kg	2.5	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.64	1
Acetone	36		ug/kg	13	2.9	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.88	1
Vinyl acetate	ND		ug/kg	13	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.22	1
2-Hexanone	ND		ug/kg	13	0.84	1
Bromochloromethane	ND		ug/kg	6.4	0.45	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.57	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.4	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.4	0.31	1
o-Chlorotoluene	ND		ug/kg	6.4	0.28	1
p-Chlorotoluene	ND		ug/kg	6.4	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.44	1
Isopropylbenzene	ND		ug/kg	1.3	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	ND		ug/kg	6.4	0.18	1
Acrylonitrile	ND		ug/kg	13	0.65	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02
Client ID: RSB05_6-7
Sample Location: NY, NY

Date Collected: 04/10/18 14:31
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.24	1
1,4-Dioxane	ND		ug/kg	51	18.	1
p-Diethylbenzene	ND		ug/kg	5.1	5.1	1
p-Ethyltoluene	ND		ug/kg	5.1	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.20	1
Ethyl ether	ND		ug/kg	6.4	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03
 Client ID: RSB06_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 09:32
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 20:22
 Analyst: MV
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.5	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.39	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.45	1
Bromodichloromethane	ND		ug/kg	1.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.30	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.42	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.25	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.4	0.56	1
Bromomethane	ND		ug/kg	2.6	0.43	1
Vinyl chloride	ND		ug/kg	2.6	0.40	1
Chloroethane	ND		ug/kg	2.6	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.48	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.31	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03

Date Collected: 04/10/18 09:32

Client ID: RSB06_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.39	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.20	1
p/m-Xylene	ND		ug/kg	2.6	0.45	1
o-Xylene	ND		ug/kg	2.6	0.43	1
Xylenes, Total	ND		ug/kg	2.6	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.44	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.31	1
Dibromomethane	ND		ug/kg	13	0.30	1
Styrene	ND		ug/kg	2.6	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.64	1
Acetone	5.2	J	ug/kg	13	2.9	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.88	1
Vinyl acetate	ND		ug/kg	13	0.20	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.23	1
2-Hexanone	ND		ug/kg	13	0.85	1
Bromochloromethane	ND		ug/kg	6.4	0.46	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.58	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.41	1
Bromobenzene	ND		ug/kg	6.4	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.4	0.32	1
o-Chlorotoluene	ND		ug/kg	6.4	0.28	1
p-Chlorotoluene	ND		ug/kg	6.4	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.51	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.44	1
Isopropylbenzene	ND		ug/kg	1.3	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	ND		ug/kg	6.4	0.18	1
Acrylonitrile	ND		ug/kg	13	0.66	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03
Client ID: RSB06_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 09:32
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.24	1
1,4-Dioxane	ND		ug/kg	51	18.	1
p-Diethylbenzene	ND		ug/kg	5.1	5.1	1
p-Ethyltoluene	ND		ug/kg	5.1	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.20	1
Ethyl ether	ND		ug/kg	6.4	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04
 Client ID: RSB06_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 09:40
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 20:48
 Analyst: MV
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	2.5	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.41	1
Chloroform	ND		ug/kg	2.3	0.56	1
Carbon tetrachloride	ND		ug/kg	1.5	0.52	1
1,2-Dichloropropane	ND		ug/kg	5.3	0.35	1
Dibromochloromethane	ND		ug/kg	1.5	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	0.48	1
Tetrachloroethene	ND		ug/kg	1.5	0.46	1
Chlorobenzene	ND		ug/kg	1.5	0.53	1
Trichlorofluoromethane	ND		ug/kg	7.6	0.64	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.53	1
Bromodichloromethane	ND		ug/kg	1.5	0.47	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.35	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.32	1
1,1-Dichloropropene	ND		ug/kg	7.6	0.50	1
Bromoform	ND		ug/kg	6.1	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.45	1
Benzene	ND		ug/kg	1.5	0.29	1
Toluene	ND		ug/kg	2.3	0.30	1
Ethylbenzene	ND		ug/kg	1.5	0.26	1
Chloromethane	ND		ug/kg	7.6	0.66	1
Bromomethane	ND		ug/kg	3.0	0.52	1
Vinyl chloride	ND		ug/kg	3.0	0.48	1
Chloroethane	ND		ug/kg	3.0	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.57	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.37	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04

Date Collected: 04/10/18 09:40

Client ID: RSB06_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.5	0.46	1
1,2-Dichlorobenzene	ND		ug/kg	7.6	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	7.6	0.33	1
1,4-Dichlorobenzene	ND		ug/kg	7.6	0.28	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.23	1
p/m-Xylene	ND		ug/kg	3.0	0.54	1
o-Xylene	ND		ug/kg	3.0	0.52	1
Xylenes, Total	ND		ug/kg	3.0	0.52	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.52	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.37	1
Dibromomethane	ND		ug/kg	15	0.36	1
Styrene	ND		ug/kg	3.0	0.61	1
Dichlorodifluoromethane	ND		ug/kg	15	0.76	1
Acetone	8.9	J	ug/kg	15	3.5	1
Carbon disulfide	ND		ug/kg	15	1.7	1
2-Butanone	ND		ug/kg	15	1.0	1
Vinyl acetate	ND		ug/kg	15	0.23	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.37	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.27	1
2-Hexanone	ND		ug/kg	15	1.0	1
Bromochloromethane	ND		ug/kg	7.6	0.54	1
2,2-Dichloropropane	ND		ug/kg	7.6	0.68	1
1,2-Dibromoethane	ND		ug/kg	6.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	7.6	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.48	1
Bromobenzene	ND		ug/kg	7.6	0.33	1
n-Butylbenzene	ND		ug/kg	1.5	0.35	1
sec-Butylbenzene	ND		ug/kg	1.5	0.33	1
tert-Butylbenzene	ND		ug/kg	7.6	0.38	1
o-Chlorotoluene	ND		ug/kg	7.6	0.34	1
p-Chlorotoluene	ND		ug/kg	7.6	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.6	0.60	1
Hexachlorobutadiene	ND		ug/kg	7.6	0.53	1
Isopropylbenzene	ND		ug/kg	1.5	0.30	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.31	1
Naphthalene	ND		ug/kg	7.6	0.21	1
Acrylonitrile	ND		ug/kg	15	0.78	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04
Client ID: RSB06_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 09:40
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.33	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.6	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.6	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.6	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.6	0.28	1
1,4-Dioxane	ND		ug/kg	61	22.	1
p-Diethylbenzene	ND		ug/kg	6.1	6.1	1
p-Ethyltoluene	ND		ug/kg	6.1	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.1	0.24	1
Ethyl ether	ND		ug/kg	7.6	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.6	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05
 Client ID: RSB07_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 10:36
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 21:15
 Analyst: MV
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	18	2.9	1
1,1-Dichloroethane	ND		ug/kg	2.7	0.48	1
Chloroform	ND		ug/kg	2.7	0.66	1
Carbon tetrachloride	ND		ug/kg	1.8	0.61	1
1,2-Dichloropropane	ND		ug/kg	6.2	0.40	1
Dibromochloromethane	ND		ug/kg	1.8	0.31	1
1,1,2-Trichloroethane	ND		ug/kg	2.7	0.56	1
Tetrachloroethene	ND		ug/kg	1.8	0.54	1
Chlorobenzene	ND		ug/kg	1.8	0.62	1
Trichlorofluoromethane	ND		ug/kg	8.9	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.44	1
1,1,1-Trichloroethane	ND		ug/kg	1.8	0.62	1
Bromodichloromethane	ND		ug/kg	1.8	0.55	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	1.8	0.41	1
1,3-Dichloropropene, Total	ND		ug/kg	1.8	0.37	1
1,1-Dichloropropene	ND		ug/kg	8.9	0.58	1
Bromoform	ND		ug/kg	7.1	0.42	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.8	0.53	1
Benzene	ND		ug/kg	1.8	0.34	1
Toluene	ND		ug/kg	2.7	0.34	1
Ethylbenzene	ND		ug/kg	1.8	0.30	1
Chloromethane	ND		ug/kg	8.9	0.77	1
Bromomethane	ND		ug/kg	3.5	0.60	1
Vinyl chloride	ND		ug/kg	3.5	0.56	1
Chloroethane	ND		ug/kg	3.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.66	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.43	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05

Date Collected: 04/10/18 10:36

Client ID: RSB07_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.8	0.54	1
1,2-Dichlorobenzene	ND		ug/kg	8.9	0.32	1
1,3-Dichlorobenzene	ND		ug/kg	8.9	0.39	1
1,4-Dichlorobenzene	ND		ug/kg	8.9	0.32	1
Methyl tert butyl ether	ND		ug/kg	3.5	0.27	1
p/m-Xylene	ND		ug/kg	3.5	0.62	1
o-Xylene	ND		ug/kg	3.5	0.60	1
Xylenes, Total	ND		ug/kg	3.5	0.60	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.61	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	0.43	1
Dibromomethane	ND		ug/kg	18	0.42	1
Styrene	ND		ug/kg	3.5	0.71	1
Dichlorodifluoromethane	ND		ug/kg	18	0.89	1
Acetone	ND		ug/kg	18	4.1	1
Carbon disulfide	ND		ug/kg	18	2.0	1
2-Butanone	ND		ug/kg	18	1.2	1
Vinyl acetate	ND		ug/kg	18	0.27	1
4-Methyl-2-pentanone	ND		ug/kg	18	0.43	1
1,2,3-Trichloropropane	ND		ug/kg	18	0.31	1
2-Hexanone	ND		ug/kg	18	1.2	1
Bromochloromethane	ND		ug/kg	8.9	0.63	1
2,2-Dichloropropane	ND		ug/kg	8.9	0.80	1
1,2-Dibromoethane	ND		ug/kg	7.1	0.35	1
1,3-Dichloropropane	ND		ug/kg	8.9	0.32	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.8	0.56	1
Bromobenzene	ND		ug/kg	8.9	0.39	1
n-Butylbenzene	ND		ug/kg	1.8	0.40	1
sec-Butylbenzene	ND		ug/kg	1.8	0.38	1
tert-Butylbenzene	ND		ug/kg	8.9	0.44	1
o-Chlorotoluene	ND		ug/kg	8.9	0.39	1
p-Chlorotoluene	ND		ug/kg	8.9	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.9	0.70	1
Hexachlorobutadiene	ND		ug/kg	8.9	0.62	1
Isopropylbenzene	ND		ug/kg	1.8	0.34	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.36	1
Naphthalene	ND		ug/kg	8.9	0.24	1
Acrylonitrile	ND		ug/kg	18	0.91	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05
Client ID: RSB07_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 10:36
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.8	0.38	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.9	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.9	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.9	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	8.9	0.33	1
1,4-Dioxane	ND		ug/kg	71	26.	1
p-Diethylbenzene	ND		ug/kg	7.1	7.1	1
p-Ethyltoluene	ND		ug/kg	7.1	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.1	0.28	1
Ethyl ether	ND		ug/kg	8.9	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.9	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06
 Client ID: RSB07_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 10:29
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 21:41
 Analyst: MV
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	16	2.7	1
1,1-Dichloroethane	ND		ug/kg	2.4	0.44	1
Chloroform	ND		ug/kg	2.4	0.60	1
Carbon tetrachloride	ND		ug/kg	1.6	0.56	1
1,2-Dichloropropane	ND		ug/kg	5.7	0.37	1
Dibromochloromethane	ND		ug/kg	1.6	0.28	1
1,1,2-Trichloroethane	ND		ug/kg	2.4	0.51	1
Tetrachloroethene	ND		ug/kg	1.6	0.49	1
Chlorobenzene	ND		ug/kg	1.6	0.56	1
Trichlorofluoromethane	ND		ug/kg	8.1	0.67	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.57	1
Bromodichloromethane	ND		ug/kg	1.6	0.50	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.37	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.34	1
1,1-Dichloropropene	ND		ug/kg	8.1	0.53	1
Bromoform	ND		ug/kg	6.5	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.48	1
Benzene	ND		ug/kg	1.6	0.31	1
Toluene	ND		ug/kg	2.4	0.32	1
Ethylbenzene	ND		ug/kg	1.6	0.28	1
Chloromethane	ND		ug/kg	8.1	0.70	1
Bromomethane	ND		ug/kg	3.2	0.55	1
Vinyl chloride	ND		ug/kg	3.2	0.51	1
Chloroethane	ND		ug/kg	3.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.60	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.39	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06

Date Collected: 04/10/18 10:29

Client ID: RSB07_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.6	0.49	1
1,2-Dichlorobenzene	ND		ug/kg	8.1	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	8.1	0.35	1
1,4-Dichlorobenzene	ND		ug/kg	8.1	0.29	1
Methyl tert butyl ether	ND		ug/kg	3.2	0.25	1
p/m-Xylene	ND		ug/kg	3.2	0.57	1
o-Xylene	ND		ug/kg	3.2	0.55	1
Xylenes, Total	ND		ug/kg	3.2	0.55	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.55	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.39	1
Dibromomethane	ND		ug/kg	16	0.39	1
Styrene	ND		ug/kg	3.2	0.65	1
Dichlorodifluoromethane	ND		ug/kg	16	0.81	1
Acetone	34		ug/kg	16	3.7	1
Carbon disulfide	ND		ug/kg	16	1.8	1
2-Butanone	ND		ug/kg	16	1.1	1
Vinyl acetate	ND		ug/kg	16	0.25	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.39	1
1,2,3-Trichloropropane	ND		ug/kg	16	0.29	1
2-Hexanone	ND		ug/kg	16	1.1	1
Bromochloromethane	ND		ug/kg	8.1	0.58	1
2,2-Dichloropropane	ND		ug/kg	8.1	0.73	1
1,2-Dibromoethane	ND		ug/kg	6.5	0.32	1
1,3-Dichloropropane	ND		ug/kg	8.1	0.30	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.51	1
Bromobenzene	ND		ug/kg	8.1	0.35	1
n-Butylbenzene	ND		ug/kg	1.6	0.37	1
sec-Butylbenzene	ND		ug/kg	1.6	0.35	1
tert-Butylbenzene	ND		ug/kg	8.1	0.40	1
o-Chlorotoluene	ND		ug/kg	8.1	0.36	1
p-Chlorotoluene	ND		ug/kg	8.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.1	0.64	1
Hexachlorobutadiene	ND		ug/kg	8.1	0.56	1
Isopropylbenzene	ND		ug/kg	1.6	0.31	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.33	1
Naphthalene	ND		ug/kg	8.1	0.22	1
Acrylonitrile	ND		ug/kg	16	0.83	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06
Client ID: RSB07_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 10:29
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.6	0.35	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.1	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.1	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.1	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	8.1	0.30	1
1,4-Dioxane	ND		ug/kg	65	23.	1
p-Diethylbenzene	ND		ug/kg	6.5	6.5	1
p-Ethyltoluene	ND		ug/kg	6.5	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.5	0.25	1
Ethyl ether	ND		ug/kg	8.1	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.1	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07
 Client ID: RSB08_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 12:08
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 22:07
 Analyst: MV
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	28	4.6	1
1,1-Dichloroethane	ND		ug/kg	4.2	0.75	1
Chloroform	ND		ug/kg	4.2	1.0	1
Carbon tetrachloride	ND		ug/kg	2.8	0.96	1
1,2-Dichloropropane	ND		ug/kg	9.7	0.63	1
Dibromochloromethane	ND		ug/kg	2.8	0.49	1
1,1,2-Trichloroethane	ND		ug/kg	4.2	0.87	1
Tetrachloroethene	ND		ug/kg	2.8	0.84	1
Chlorobenzene	ND		ug/kg	2.8	0.96	1
Trichlorofluoromethane	ND		ug/kg	14	1.2	1
1,2-Dichloroethane	ND		ug/kg	2.8	0.68	1
1,1,1-Trichloroethane	ND		ug/kg	2.8	0.97	1
Bromodichloromethane	ND		ug/kg	2.8	0.85	1
trans-1,3-Dichloropropene	ND		ug/kg	2.8	0.58	1
cis-1,3-Dichloropropene	ND		ug/kg	2.8	0.64	1
1,3-Dichloropropene, Total	ND		ug/kg	2.8	0.58	1
1,1-Dichloropropene	ND		ug/kg	14	0.91	1
Bromoform	ND		ug/kg	11	0.66	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.8	0.83	1
Benzene	ND		ug/kg	2.8	0.54	1
Toluene	ND		ug/kg	4.2	0.54	1
Ethylbenzene	ND		ug/kg	2.8	0.47	1
Chloromethane	ND		ug/kg	14	1.2	1
Bromomethane	ND		ug/kg	5.5	0.94	1
Vinyl chloride	ND		ug/kg	5.5	0.87	1
Chloroethane	ND		ug/kg	5.5	0.88	1
1,1-Dichloroethene	ND		ug/kg	2.8	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	4.2	0.67	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07

Date Collected: 04/10/18 12:08

Client ID: RSB08_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	2.8	0.84	1
1,2-Dichlorobenzene	ND		ug/kg	14	0.50	1
1,3-Dichlorobenzene	ND		ug/kg	14	0.60	1
1,4-Dichlorobenzene	ND		ug/kg	14	0.50	1
Methyl tert butyl ether	ND		ug/kg	5.5	0.42	1
p/m-Xylene	ND		ug/kg	5.5	0.97	1
o-Xylene	ND		ug/kg	5.5	0.94	1
Xylenes, Total	ND		ug/kg	5.5	0.94	1
cis-1,2-Dichloroethene	ND		ug/kg	2.8	0.95	1
1,2-Dichloroethene, Total	ND		ug/kg	2.8	0.67	1
Dibromomethane	ND		ug/kg	28	0.66	1
Styrene	ND		ug/kg	5.5	1.1	1
Dichlorodifluoromethane	ND		ug/kg	28	1.4	1
Acetone	ND		ug/kg	28	6.3	1
Carbon disulfide	ND		ug/kg	28	3.0	1
2-Butanone	ND		ug/kg	28	1.9	1
Vinyl acetate	ND		ug/kg	28	0.42	1
4-Methyl-2-pentanone	ND		ug/kg	28	0.68	1
1,2,3-Trichloropropane	ND		ug/kg	28	0.49	1
2-Hexanone	ND		ug/kg	28	1.8	1
Bromochloromethane	ND		ug/kg	14	0.99	1
2,2-Dichloropropane	ND		ug/kg	14	1.2	1
1,2-Dibromoethane	ND		ug/kg	11	0.55	1
1,3-Dichloropropane	ND		ug/kg	14	0.51	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.8	0.88	1
Bromobenzene	ND		ug/kg	14	0.61	1
n-Butylbenzene	ND		ug/kg	2.8	0.63	1
sec-Butylbenzene	ND		ug/kg	2.8	0.60	1
tert-Butylbenzene	ND		ug/kg	14	0.68	1
o-Chlorotoluene	ND		ug/kg	14	0.61	1
p-Chlorotoluene	ND		ug/kg	14	0.51	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	14	1.1	1
Hexachlorobutadiene	ND		ug/kg	14	0.96	1
Isopropylbenzene	ND		ug/kg	2.8	0.54	1
p-Isopropyltoluene	ND		ug/kg	2.8	0.56	1
Naphthalene	ND		ug/kg	14	0.38	1
Acrylonitrile	ND		ug/kg	28	1.4	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07
Client ID: RSB08_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 12:08
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.8	0.60	1
1,2,3-Trichlorobenzene	ND		ug/kg	14	0.70	1
1,2,4-Trichlorobenzene	ND		ug/kg	14	0.60	1
1,3,5-Trimethylbenzene	ND		ug/kg	14	0.45	1
1,2,4-Trimethylbenzene	ND		ug/kg	14	0.52	1
1,4-Dioxane	ND		ug/kg	110	40.	1
p-Diethylbenzene	ND		ug/kg	11	11.	1
p-Ethyltoluene	ND		ug/kg	11	0.65	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	11	0.43	1
Ethyl ether	ND		ug/kg	14	0.72	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	14	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08
 Client ID: RSB08_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 12:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 22:33
 Analyst: MV
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	27	4.4	1
1,1-Dichloroethane	ND		ug/kg	4.0	0.73	1
Chloroform	ND		ug/kg	4.0	1.0	1
Carbon tetrachloride	ND		ug/kg	2.7	0.93	1
1,2-Dichloropropane	ND		ug/kg	9.4	0.62	1
Dibromochloromethane	ND		ug/kg	2.7	0.48	1
1,1,2-Trichloroethane	ND		ug/kg	4.0	0.84	1
Tetrachloroethene	ND		ug/kg	2.7	0.82	1
Chlorobenzene	ND		ug/kg	2.7	0.94	1
Trichlorofluoromethane	ND		ug/kg	14	1.1	1
1,2-Dichloroethane	ND		ug/kg	2.7	0.66	1
1,1,1-Trichloroethane	ND		ug/kg	2.7	0.94	1
Bromodichloromethane	ND		ug/kg	2.7	0.83	1
trans-1,3-Dichloropropene	ND		ug/kg	2.7	0.56	1
cis-1,3-Dichloropropene	ND		ug/kg	2.7	0.62	1
1,3-Dichloropropene, Total	ND		ug/kg	2.7	0.56	1
1,1-Dichloropropene	ND		ug/kg	14	0.89	1
Bromoform	ND		ug/kg	11	0.64	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.7	0.80	1
Benzene	ND		ug/kg	2.7	0.52	1
Toluene	ND		ug/kg	4.0	0.53	1
Ethylbenzene	ND		ug/kg	2.7	0.46	1
Chloromethane	ND		ug/kg	14	1.2	1
Bromomethane	ND		ug/kg	5.4	0.91	1
Vinyl chloride	ND		ug/kg	5.4	0.85	1
Chloroethane	ND		ug/kg	5.4	0.85	1
1,1-Dichloroethene	ND		ug/kg	2.7	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	4.0	0.65	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08

Date Collected: 04/10/18 12:23

Client ID: RSB08_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	2.7	0.82	1
1,2-Dichlorobenzene	ND		ug/kg	14	0.49	1
1,3-Dichlorobenzene	ND		ug/kg	14	0.59	1
1,4-Dichlorobenzene	ND		ug/kg	14	0.49	1
Methyl tert butyl ether	ND		ug/kg	5.4	0.41	1
p/m-Xylene	ND		ug/kg	5.4	0.95	1
o-Xylene	ND		ug/kg	5.4	0.91	1
Xylenes, Total	ND		ug/kg	5.4	0.91	1
cis-1,2-Dichloroethene	ND		ug/kg	2.7	0.92	1
1,2-Dichloroethene, Total	ND		ug/kg	2.7	0.65	1
Dibromomethane	ND		ug/kg	27	0.64	1
Styrene	ND		ug/kg	5.4	1.1	1
Dichlorodifluoromethane	ND		ug/kg	27	1.4	1
Acetone	ND		ug/kg	27	6.2	1
Carbon disulfide	ND		ug/kg	27	3.0	1
2-Butanone	ND		ug/kg	27	1.9	1
Vinyl acetate	ND		ug/kg	27	0.41	1
4-Methyl-2-pentanone	ND		ug/kg	27	0.66	1
1,2,3-Trichloropropane	ND		ug/kg	27	0.48	1
2-Hexanone	ND		ug/kg	27	1.8	1
Bromochloromethane	ND		ug/kg	14	0.96	1
2,2-Dichloropropane	ND		ug/kg	14	1.2	1
1,2-Dibromoethane	ND		ug/kg	11	0.54	1
1,3-Dichloropropane	ND		ug/kg	14	0.49	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.7	0.86	1
Bromobenzene	ND		ug/kg	14	0.59	1
n-Butylbenzene	ND		ug/kg	2.7	0.62	1
sec-Butylbenzene	ND		ug/kg	2.7	0.59	1
tert-Butylbenzene	ND		ug/kg	14	0.67	1
o-Chlorotoluene	ND		ug/kg	14	0.60	1
p-Chlorotoluene	ND		ug/kg	14	0.49	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	14	1.1	1
Hexachlorobutadiene	ND		ug/kg	14	0.94	1
Isopropylbenzene	ND		ug/kg	2.7	0.52	1
p-Isopropyltoluene	ND		ug/kg	2.7	0.54	1
Naphthalene	ND		ug/kg	14	0.37	1
Acrylonitrile	ND		ug/kg	27	1.4	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08
Client ID: RSB08_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 12:23
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.7	0.58	1
1,2,3-Trichlorobenzene	ND		ug/kg	14	0.68	1
1,2,4-Trichlorobenzene	ND		ug/kg	14	0.58	1
1,3,5-Trimethylbenzene	ND		ug/kg	14	0.44	1
1,2,4-Trimethylbenzene	ND		ug/kg	14	0.50	1
1,4-Dioxane	ND		ug/kg	110	39.	1
p-Diethylbenzene	ND		ug/kg	11	11.	1
p-Ethyltoluene	ND		ug/kg	11	0.63	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	11	0.42	1
Ethyl ether	ND		ug/kg	14	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	14	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09
 Client ID: RSB08_14-15
 Sample Location: NY, NY

Date Collected: 04/10/18 12:15
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 22:59
 Analyst: MV
 Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	22	3.7	1
1,1-Dichloroethane	ND		ug/kg	3.3	0.60	1
Chloroform	ND		ug/kg	3.3	0.82	1
Carbon tetrachloride	ND		ug/kg	2.2	0.77	1
1,2-Dichloropropane	ND		ug/kg	7.8	0.51	1
Dibromochloromethane	ND		ug/kg	2.2	0.39	1
1,1,2-Trichloroethane	ND		ug/kg	3.3	0.70	1
Tetrachloroethene	ND		ug/kg	2.2	0.67	1
Chlorobenzene	ND		ug/kg	2.2	0.77	1
Trichlorofluoromethane	ND		ug/kg	11	0.93	1
1,2-Dichloroethane	ND		ug/kg	2.2	0.55	1
1,1,1-Trichloroethane	ND		ug/kg	2.2	0.78	1
Bromodichloromethane	ND		ug/kg	2.2	0.68	1
trans-1,3-Dichloropropene	ND		ug/kg	2.2	0.46	1
cis-1,3-Dichloropropene	ND		ug/kg	2.2	0.51	1
1,3-Dichloropropene, Total	ND		ug/kg	2.2	0.46	1
1,1-Dichloropropene	ND		ug/kg	11	0.73	1
Bromoform	ND		ug/kg	8.9	0.53	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.2	0.66	1
Benzene	ND		ug/kg	2.2	0.43	1
Toluene	ND		ug/kg	3.3	0.43	1
Ethylbenzene	ND		ug/kg	2.2	0.38	1
Chloromethane	ND		ug/kg	11	0.97	1
Bromomethane	ND		ug/kg	4.4	0.75	1
Vinyl chloride	ND		ug/kg	4.4	0.70	1
Chloroethane	ND		ug/kg	4.4	0.70	1
1,1-Dichloroethene	ND		ug/kg	2.2	0.83	1
trans-1,2-Dichloroethene	ND		ug/kg	3.3	0.54	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09

Date Collected: 04/10/18 12:15

Client ID: RSB08_14-15

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	2.2	0.67	1
1,2-Dichlorobenzene	ND		ug/kg	11	0.40	1
1,3-Dichlorobenzene	ND		ug/kg	11	0.48	1
1,4-Dichlorobenzene	ND		ug/kg	11	0.40	1
Methyl tert butyl ether	ND		ug/kg	4.4	0.34	1
p/m-Xylene	ND		ug/kg	4.4	0.78	1
o-Xylene	ND		ug/kg	4.4	0.75	1
Xylenes, Total	ND		ug/kg	4.4	0.75	1
cis-1,2-Dichloroethene	ND		ug/kg	2.2	0.76	1
1,2-Dichloroethene, Total	ND		ug/kg	2.2	0.54	1
Dibromomethane	ND		ug/kg	22	0.53	1
Styrene	ND		ug/kg	4.4	0.89	1
Dichlorodifluoromethane	ND		ug/kg	22	1.1	1
Acetone	60		ug/kg	22	5.1	1
Carbon disulfide	2.7	J	ug/kg	22	2.4	1
2-Butanone	8.8	J	ug/kg	22	1.5	1
Vinyl acetate	ND		ug/kg	22	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	22	0.54	1
1,2,3-Trichloropropane	ND		ug/kg	22	0.39	1
2-Hexanone	ND		ug/kg	22	1.5	1
Bromochloromethane	ND		ug/kg	11	0.79	1
2,2-Dichloropropane	ND		ug/kg	11	1.0	1
1,2-Dibromoethane	ND		ug/kg	8.9	0.44	1
1,3-Dichloropropane	ND		ug/kg	11	0.41	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.2	0.71	1
Bromobenzene	ND		ug/kg	11	0.49	1
n-Butylbenzene	ND		ug/kg	2.2	0.51	1
sec-Butylbenzene	ND		ug/kg	2.2	0.48	1
tert-Butylbenzene	ND		ug/kg	11	0.55	1
o-Chlorotoluene	ND		ug/kg	11	0.49	1
p-Chlorotoluene	ND		ug/kg	11	0.41	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	11	0.88	1
Hexachlorobutadiene	ND		ug/kg	11	0.77	1
Isopropylbenzene	ND		ug/kg	2.2	0.43	1
p-Isopropyltoluene	ND		ug/kg	2.2	0.45	1
Naphthalene	ND		ug/kg	11	0.31	1
Acrylonitrile	ND		ug/kg	22	1.1	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09
Client ID: RSB08_14-15
Sample Location: NY, NY

Date Collected: 04/10/18 12:15
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.2	0.48	1
1,2,3-Trichlorobenzene	ND		ug/kg	11	0.56	1
1,2,4-Trichlorobenzene	ND		ug/kg	11	0.48	1
1,3,5-Trimethylbenzene	ND		ug/kg	11	0.36	1
1,2,4-Trimethylbenzene	ND		ug/kg	11	0.41	1
1,4-Dioxane	ND		ug/kg	89	32.	1
p-Diethylbenzene	ND		ug/kg	8.9	8.9	1
p-Ethyltoluene	ND		ug/kg	8.9	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	8.9	0.35	1
Ethyl ether	ND		ug/kg	11	0.58	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	0.87	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10
 Client ID: RSB13_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 11:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 23:26
 Analyst: MV
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	2.5	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.41	1
Chloroform	ND		ug/kg	2.3	0.56	1
Carbon tetrachloride	ND		ug/kg	1.5	0.53	1
1,2-Dichloropropane	ND		ug/kg	5.4	0.35	1
Dibromochloromethane	ND		ug/kg	1.5	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	0.48	1
Tetrachloroethene	ND		ug/kg	1.5	0.46	1
Chlorobenzene	ND		ug/kg	1.5	0.53	1
Trichlorofluoromethane	ND		ug/kg	7.6	0.64	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.54	1
Bromodichloromethane	ND		ug/kg	1.5	0.47	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.35	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.32	1
1,1-Dichloropropene	ND		ug/kg	7.6	0.50	1
Bromoform	ND		ug/kg	6.1	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.46	1
Benzene	ND		ug/kg	1.5	0.30	1
Toluene	ND		ug/kg	2.3	0.30	1
Ethylbenzene	ND		ug/kg	1.5	0.26	1
Chloromethane	ND		ug/kg	7.6	0.67	1
Bromomethane	ND		ug/kg	3.0	0.52	1
Vinyl chloride	ND		ug/kg	3.0	0.48	1
Chloroethane	ND		ug/kg	3.0	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.57	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.37	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10

Date Collected: 04/10/18 11:23

Client ID: RSB13_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.5	0.46	1
1,2-Dichlorobenzene	ND		ug/kg	7.6	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	7.6	0.33	1
1,4-Dichlorobenzene	ND		ug/kg	7.6	0.28	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.23	1
p/m-Xylene	ND		ug/kg	3.0	0.54	1
o-Xylene	ND		ug/kg	3.0	0.52	1
Xylenes, Total	ND		ug/kg	3.0	0.52	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.52	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.37	1
Dibromomethane	ND		ug/kg	15	0.36	1
Styrene	ND		ug/kg	3.0	0.61	1
Dichlorodifluoromethane	ND		ug/kg	15	0.76	1
Acetone	24		ug/kg	15	3.5	1
Carbon disulfide	ND		ug/kg	15	1.7	1
2-Butanone	ND		ug/kg	15	1.0	1
Vinyl acetate	ND		ug/kg	15	0.23	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.37	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.27	1
2-Hexanone	ND		ug/kg	15	1.0	1
Bromochloromethane	ND		ug/kg	7.6	0.55	1
2,2-Dichloropropane	ND		ug/kg	7.6	0.69	1
1,2-Dibromoethane	ND		ug/kg	6.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	7.6	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.49	1
Bromobenzene	ND		ug/kg	7.6	0.33	1
n-Butylbenzene	ND		ug/kg	1.5	0.35	1
sec-Butylbenzene	ND		ug/kg	1.5	0.33	1
tert-Butylbenzene	ND		ug/kg	7.6	0.38	1
o-Chlorotoluene	ND		ug/kg	7.6	0.34	1
p-Chlorotoluene	ND		ug/kg	7.6	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.6	0.60	1
Hexachlorobutadiene	ND		ug/kg	7.6	0.53	1
Isopropylbenzene	ND		ug/kg	1.5	0.30	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.31	1
Naphthalene	ND		ug/kg	7.6	0.21	1
Acrylonitrile	ND		ug/kg	15	0.79	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10
Client ID: RSB13_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 11:23
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.33	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.6	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.6	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.6	0.28	1
1,4-Dioxane	ND		ug/kg	61	22.	1
p-Diethylbenzene	ND		ug/kg	6.1	6.1	1
p-Ethyltoluene	ND		ug/kg	6.1	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.1	0.24	1
Ethyl ether	ND		ug/kg	7.6	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.6	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11
 Client ID: RSB13_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 11:28
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/12/18 23:52
 Analyst: MV
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.37	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.47	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.42	1
Tetrachloroethene	ND		ug/kg	1.4	0.41	1
Chlorobenzene	ND		ug/kg	1.4	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.57	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.48	1
Bromodichloromethane	ND		ug/kg	1.4	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.31	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.44	1
Bromoform	ND		ug/kg	5.4	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.40	1
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Chloromethane	ND		ug/kg	6.8	0.59	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.43	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.33	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11

Date Collected: 04/10/18 11:28

Client ID: RSB13_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.46	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.32	1
Styrene	ND		ug/kg	2.7	0.54	1
Dichlorodifluoromethane	ND		ug/kg	14	0.68	1
Acetone	18		ug/kg	14	3.1	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.94	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.90	1
Bromochloromethane	ND		ug/kg	6.8	0.48	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.61	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.29	1
tert-Butylbenzene	ND		ug/kg	6.8	0.34	1
o-Chlorotoluene	ND		ug/kg	6.8	0.30	1
p-Chlorotoluene	ND		ug/kg	6.8	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.47	1
Isopropylbenzene	ND		ug/kg	1.4	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.27	1
Naphthalene	ND		ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11
Client ID: RSB13_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 11:28
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.25	1
1,4-Dioxane	ND		ug/kg	54	20.	1
p-Diethylbenzene	ND		ug/kg	5.4	5.4	1
p-Ethyltoluene	ND		ug/kg	5.4	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.21	1
Ethyl ether	ND		ug/kg	6.8	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12
 Client ID: RSB14_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 13:45
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 00:18
 Analyst: MV
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	2.5	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.41	1
Chloroform	ND		ug/kg	2.3	0.56	1
Carbon tetrachloride	ND		ug/kg	1.5	0.52	1
1,2-Dichloropropane	ND		ug/kg	5.3	0.35	1
Dibromochloromethane	ND		ug/kg	1.5	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	0.48	1
Tetrachloroethene	ND		ug/kg	1.5	0.46	1
Chlorobenzene	ND		ug/kg	1.5	0.53	1
Trichlorofluoromethane	ND		ug/kg	7.6	0.64	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.53	1
Bromodichloromethane	ND		ug/kg	1.5	0.47	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.35	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.32	1
1,1-Dichloropropene	ND		ug/kg	7.6	0.50	1
Bromoform	ND		ug/kg	6.1	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.45	1
Benzene	ND		ug/kg	1.5	0.29	1
Toluene	ND		ug/kg	2.3	0.30	1
Ethylbenzene	ND		ug/kg	1.5	0.26	1
Chloromethane	ND		ug/kg	7.6	0.66	1
Bromomethane	ND		ug/kg	3.0	0.51	1
Vinyl chloride	ND		ug/kg	3.0	0.48	1
Chloroethane	ND		ug/kg	3.0	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.57	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.37	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12

Date Collected: 04/10/18 13:45

Client ID: RSB14_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.5	0.46	1
1,2-Dichlorobenzene	ND		ug/kg	7.6	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	7.6	0.33	1
1,4-Dichlorobenzene	ND		ug/kg	7.6	0.28	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.23	1
p/m-Xylene	ND		ug/kg	3.0	0.53	1
o-Xylene	ND		ug/kg	3.0	0.51	1
Xylenes, Total	ND		ug/kg	3.0	0.51	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.52	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.37	1
Dibromomethane	ND		ug/kg	15	0.36	1
Styrene	ND		ug/kg	3.0	0.61	1
Dichlorodifluoromethane	ND		ug/kg	15	0.76	1
Acetone	ND		ug/kg	15	3.5	1
Carbon disulfide	ND		ug/kg	15	1.7	1
2-Butanone	ND		ug/kg	15	1.0	1
Vinyl acetate	ND		ug/kg	15	0.23	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.37	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.27	1
2-Hexanone	ND		ug/kg	15	1.0	1
Bromochloromethane	ND		ug/kg	7.6	0.54	1
2,2-Dichloropropane	ND		ug/kg	7.6	0.68	1
1,2-Dibromoethane	ND		ug/kg	6.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	7.6	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.48	1
Bromobenzene	ND		ug/kg	7.6	0.33	1
n-Butylbenzene	ND		ug/kg	1.5	0.35	1
sec-Butylbenzene	ND		ug/kg	1.5	0.33	1
tert-Butylbenzene	ND		ug/kg	7.6	0.38	1
o-Chlorotoluene	ND		ug/kg	7.6	0.34	1
p-Chlorotoluene	ND		ug/kg	7.6	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.6	0.60	1
Hexachlorobutadiene	ND		ug/kg	7.6	0.53	1
Isopropylbenzene	ND		ug/kg	1.5	0.30	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.31	1
Naphthalene	ND		ug/kg	7.6	0.21	1
Acrylonitrile	ND		ug/kg	15	0.78	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12
Client ID: RSB14_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 13:45
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.33	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.6	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.6	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.6	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.6	0.28	1
1,4-Dioxane	ND		ug/kg	61	22.	1
p-Diethylbenzene	ND		ug/kg	6.1	6.1	1
p-Ethyltoluene	ND		ug/kg	6.1	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.1	0.24	1
Ethyl ether	ND		ug/kg	7.6	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.6	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13
 Client ID: RSB14_10-11
 Sample Location: NY, NY

Date Collected: 04/10/18 13:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 00:44
 Analyst: MV
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	2.4	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.40	1
Chloroform	ND		ug/kg	2.2	0.54	1
Carbon tetrachloride	ND		ug/kg	1.5	0.51	1
1,2-Dichloropropane	ND		ug/kg	5.2	0.34	1
Dibromochloromethane	ND		ug/kg	1.5	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.46	1
Tetrachloroethene	ND		ug/kg	1.5	0.44	1
Chlorobenzene	ND		ug/kg	1.5	0.51	1
Trichlorofluoromethane	ND		ug/kg	7.4	0.61	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.52	1
Bromodichloromethane	ND		ug/kg	1.5	0.45	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.34	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.31	1
1,1-Dichloropropene	ND		ug/kg	7.4	0.48	1
Bromoform	ND		ug/kg	5.9	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.44	1
Benzene	ND		ug/kg	1.5	0.28	1
Toluene	ND		ug/kg	2.2	0.29	1
Ethylbenzene	ND		ug/kg	1.5	0.25	1
Chloromethane	ND		ug/kg	7.4	0.64	1
Bromomethane	ND		ug/kg	2.9	0.50	1
Vinyl chloride	ND		ug/kg	2.9	0.46	1
Chloroethane	ND		ug/kg	2.9	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.55	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.35	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13

Date Collected: 04/10/18 13:31

Client ID: RSB14_10-11

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.5	0.44	1
1,2-Dichlorobenzene	ND		ug/kg	7.4	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	7.4	0.32	1
1,4-Dichlorobenzene	ND		ug/kg	7.4	0.27	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.22	1
p/m-Xylene	ND		ug/kg	2.9	0.52	1
o-Xylene	ND		ug/kg	2.9	0.50	1
Xylenes, Total	ND		ug/kg	2.9	0.50	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.50	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.35	1
Dibromomethane	ND		ug/kg	15	0.35	1
Styrene	ND		ug/kg	2.9	0.59	1
Dichlorodifluoromethane	ND		ug/kg	15	0.74	1
Acetone	26		ug/kg	15	3.4	1
Carbon disulfide	ND		ug/kg	15	1.6	1
2-Butanone	ND		ug/kg	15	1.0	1
Vinyl acetate	ND		ug/kg	15	0.22	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.36	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.26	1
2-Hexanone	ND		ug/kg	15	0.98	1
Bromochloromethane	ND		ug/kg	7.4	0.52	1
2,2-Dichloropropane	ND		ug/kg	7.4	0.66	1
1,2-Dibromoethane	ND		ug/kg	5.9	0.29	1
1,3-Dichloropropane	ND		ug/kg	7.4	0.27	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.47	1
Bromobenzene	ND		ug/kg	7.4	0.32	1
n-Butylbenzene	ND		ug/kg	1.5	0.34	1
sec-Butylbenzene	ND		ug/kg	1.5	0.32	1
tert-Butylbenzene	ND		ug/kg	7.4	0.36	1
o-Chlorotoluene	ND		ug/kg	7.4	0.32	1
p-Chlorotoluene	ND		ug/kg	7.4	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.4	0.58	1
Hexachlorobutadiene	ND		ug/kg	7.4	0.51	1
Isopropylbenzene	ND		ug/kg	1.5	0.28	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.30	1
Naphthalene	ND		ug/kg	7.4	0.20	1
Acrylonitrile	ND		ug/kg	15	0.76	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13
Client ID: RSB14_10-11
Sample Location: NY, NY

Date Collected: 04/10/18 13:31
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.32	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.4	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.4	0.27	1
1,4-Dioxane	ND		ug/kg	59	21.	1
p-Diethylbenzene	ND		ug/kg	5.9	5.9	1
p-Ethyltoluene	ND		ug/kg	5.9	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.9	0.23	1
Ethyl ether	ND		ug/kg	7.4	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.4	0.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14
 Client ID: RSB14_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 13:39
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 01:11
 Analyst: MV
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.36	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.3	0.46	1
1,2-Dichloropropane	ND		ug/kg	4.7	0.30	1
Dibromochloromethane	ND		ug/kg	1.3	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.42	1
Tetrachloroethene	ND		ug/kg	1.3	0.40	1
Chlorobenzene	ND		ug/kg	1.3	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.7	0.56	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.47	1
Bromodichloromethane	ND		ug/kg	1.3	0.41	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.31	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.7	0.44	1
Bromoform	ND		ug/kg	5.4	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Benzene	ND		ug/kg	1.3	0.26	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.3	0.23	1
Chloromethane	ND		ug/kg	6.7	0.58	1
Bromomethane	ND		ug/kg	2.7	0.45	1
Vinyl chloride	ND		ug/kg	2.7	0.42	1
Chloroethane	ND		ug/kg	2.7	0.42	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.32	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14

Date Collected: 04/10/18 13:39

Client ID: RSB14_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.40	1
1,2-Dichlorobenzene	ND		ug/kg	6.7	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	6.7	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	6.7	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.20	1
p/m-Xylene	ND		ug/kg	2.7	0.47	1
o-Xylene	ND		ug/kg	2.7	0.45	1
Xylenes, Total	ND		ug/kg	2.7	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.46	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.32	1
Dibromomethane	ND		ug/kg	13	0.32	1
Styrene	ND		ug/kg	2.7	0.54	1
Dichlorodifluoromethane	ND		ug/kg	13	0.67	1
Acetone	13		ug/kg	13	3.1	1
Carbon disulfide	ND		ug/kg	13	1.5	1
2-Butanone	ND		ug/kg	13	0.92	1
Vinyl acetate	ND		ug/kg	13	0.20	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.24	1
2-Hexanone	ND		ug/kg	13	0.89	1
Bromochloromethane	ND		ug/kg	6.7	0.48	1
2,2-Dichloropropane	ND		ug/kg	6.7	0.60	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.7	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.43	1
Bromobenzene	ND		ug/kg	6.7	0.29	1
n-Butylbenzene	ND		ug/kg	1.3	0.30	1
sec-Butylbenzene	ND		ug/kg	1.3	0.29	1
tert-Butylbenzene	ND		ug/kg	6.7	0.33	1
o-Chlorotoluene	ND		ug/kg	6.7	0.30	1
p-Chlorotoluene	ND		ug/kg	6.7	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	0.53	1
Hexachlorobutadiene	ND		ug/kg	6.7	0.47	1
Isopropylbenzene	ND		ug/kg	1.3	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.27	1
Naphthalene	ND		ug/kg	6.7	0.18	1
Acrylonitrile	ND		ug/kg	13	0.69	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14
Client ID: RSB14_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 13:39
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.7	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.7	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.7	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.7	0.25	1
1,4-Dioxane	ND		ug/kg	54	19.	1
p-Diethylbenzene	ND		ug/kg	5.4	5.4	1
p-Ethyltoluene	ND		ug/kg	5.4	0.31	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.21	1
Ethyl ether	ND		ug/kg	6.7	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15
 Client ID: RSB15_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 08:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 01:37
 Analyst: MV
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.3	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.37	1
Chloroform	ND		ug/kg	2.1	0.51	1
Carbon tetrachloride	ND		ug/kg	1.4	0.48	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.43	1
Tetrachloroethene	ND		ug/kg	1.4	0.42	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	6.9	0.58	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.48	1
Bromodichloromethane	ND		ug/kg	1.4	0.43	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.29	1
1,1-Dichloropropene	ND		ug/kg	6.9	0.45	1
Bromoform	ND		ug/kg	5.5	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.41	1
Benzene	ND		ug/kg	1.4	0.27	1
Toluene	0.33	J	ug/kg	2.1	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.24	1
Chloromethane	ND		ug/kg	6.9	0.60	1
Bromomethane	ND		ug/kg	2.8	0.47	1
Vinyl chloride	ND		ug/kg	2.8	0.44	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.52	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.33	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15

Date Collected: 04/10/18 08:24

Client ID: RSB15_0-1

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.42	1
1,2-Dichlorobenzene	ND		ug/kg	6.9	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.9	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.9	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.21	1
p/m-Xylene	ND		ug/kg	2.8	0.48	1
o-Xylene	ND		ug/kg	2.8	0.47	1
Xylenes, Total	ND		ug/kg	2.8	0.47	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.47	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.8	0.56	1
Dichlorodifluoromethane	ND		ug/kg	14	0.69	1
Acetone	ND		ug/kg	14	3.2	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.96	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.92	1
Bromochloromethane	ND		ug/kg	6.9	0.49	1
2,2-Dichloropropane	ND		ug/kg	6.9	0.62	1
1,2-Dibromoethane	ND		ug/kg	5.5	0.28	1
1,3-Dichloropropane	ND		ug/kg	6.9	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	6.9	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.32	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	6.9	0.34	1
o-Chlorotoluene	ND		ug/kg	6.9	0.30	1
p-Chlorotoluene	ND		ug/kg	6.9	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.9	0.55	1
Hexachlorobutadiene	ND		ug/kg	6.9	0.48	1
Isopropylbenzene	ND		ug/kg	1.4	0.27	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	ND		ug/kg	6.9	0.19	1
Acrylonitrile	ND		ug/kg	14	0.71	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15
 Client ID: RSB15_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 08:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.9	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.9	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.9	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.9	0.26	1
1,4-Dioxane	ND		ug/kg	55	20.	1
p-Diethylbenzene	ND		ug/kg	5.5	5.5	1
p-Ethyltoluene	ND		ug/kg	5.5	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.5	0.22	1
Ethyl ether	ND		ug/kg	6.9	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.9	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16
 Client ID: RSB15_11-12
 Sample Location: NY, NY

Date Collected: 04/10/18 08:42
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 02:03
 Analyst: MV
 Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	22	3.7	1
1,1-Dichloroethane	ND		ug/kg	3.3	0.60	1
Chloroform	ND		ug/kg	3.3	0.82	1
Carbon tetrachloride	ND		ug/kg	2.2	0.77	1
1,2-Dichloropropane	ND		ug/kg	7.8	0.51	1
Dibromochloromethane	ND		ug/kg	2.2	0.39	1
1,1,2-Trichloroethane	ND		ug/kg	3.3	0.70	1
Tetrachloroethene	ND		ug/kg	2.2	0.67	1
Chlorobenzene	ND		ug/kg	2.2	0.77	1
Trichlorofluoromethane	ND		ug/kg	11	0.93	1
1,2-Dichloroethane	ND		ug/kg	2.2	0.55	1
1,1,1-Trichloroethane	ND		ug/kg	2.2	0.78	1
Bromodichloromethane	ND		ug/kg	2.2	0.68	1
trans-1,3-Dichloropropene	ND		ug/kg	2.2	0.46	1
cis-1,3-Dichloropropene	ND		ug/kg	2.2	0.51	1
1,3-Dichloropropene, Total	ND		ug/kg	2.2	0.46	1
1,1-Dichloropropene	ND		ug/kg	11	0.73	1
Bromoform	ND		ug/kg	8.9	0.53	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.2	0.66	1
Benzene	ND		ug/kg	2.2	0.43	1
Toluene	0.53	J	ug/kg	3.3	0.43	1
Ethylbenzene	ND		ug/kg	2.2	0.38	1
Chloromethane	ND		ug/kg	11	0.97	1
Bromomethane	ND		ug/kg	4.4	0.75	1
Vinyl chloride	ND		ug/kg	4.4	0.70	1
Chloroethane	ND		ug/kg	4.4	0.70	1
1,1-Dichloroethene	ND		ug/kg	2.2	0.83	1
trans-1,2-Dichloroethene	ND		ug/kg	3.3	0.54	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16

Date Collected: 04/10/18 08:42

Client ID: RSB15_11-12

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	2.2	0.67	1
1,2-Dichlorobenzene	ND		ug/kg	11	0.40	1
1,3-Dichlorobenzene	ND		ug/kg	11	0.48	1
1,4-Dichlorobenzene	ND		ug/kg	11	0.40	1
Methyl tert butyl ether	ND		ug/kg	4.4	0.34	1
p/m-Xylene	ND		ug/kg	4.4	0.78	1
o-Xylene	ND		ug/kg	4.4	0.75	1
Xylenes, Total	ND		ug/kg	4.4	0.75	1
cis-1,2-Dichloroethene	ND		ug/kg	2.2	0.76	1
1,2-Dichloroethene, Total	ND		ug/kg	2.2	0.54	1
Dibromomethane	ND		ug/kg	22	0.53	1
Styrene	ND		ug/kg	4.4	0.89	1
Dichlorodifluoromethane	ND		ug/kg	22	1.1	1
Acetone	77		ug/kg	22	5.1	1
Carbon disulfide	4.4	J	ug/kg	22	2.4	1
2-Butanone	8.6	J	ug/kg	22	1.5	1
Vinyl acetate	ND		ug/kg	22	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	22	0.54	1
1,2,3-Trichloropropane	ND		ug/kg	22	0.39	1
2-Hexanone	ND		ug/kg	22	1.5	1
Bromochloromethane	ND		ug/kg	11	0.79	1
2,2-Dichloropropane	ND		ug/kg	11	1.0	1
1,2-Dibromoethane	ND		ug/kg	8.9	0.44	1
1,3-Dichloropropane	ND		ug/kg	11	0.41	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.2	0.71	1
Bromobenzene	ND		ug/kg	11	0.49	1
n-Butylbenzene	ND		ug/kg	2.2	0.51	1
sec-Butylbenzene	ND		ug/kg	2.2	0.48	1
tert-Butylbenzene	ND		ug/kg	11	0.55	1
o-Chlorotoluene	ND		ug/kg	11	0.49	1
p-Chlorotoluene	ND		ug/kg	11	0.41	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	11	0.88	1
Hexachlorobutadiene	ND		ug/kg	11	0.77	1
Isopropylbenzene	ND		ug/kg	2.2	0.43	1
p-Isopropyltoluene	ND		ug/kg	2.2	0.45	1
Naphthalene	ND		ug/kg	11	0.31	1
Acrylonitrile	ND		ug/kg	22	1.1	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16
Client ID: RSB15_11-12
Sample Location: NY, NY

Date Collected: 04/10/18 08:42
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.2	0.48	1
1,2,3-Trichlorobenzene	ND		ug/kg	11	0.56	1
1,2,4-Trichlorobenzene	ND		ug/kg	11	0.48	1
1,3,5-Trimethylbenzene	ND		ug/kg	11	0.36	1
1,2,4-Trimethylbenzene	ND		ug/kg	11	0.41	1
1,4-Dioxane	ND		ug/kg	89	32.	1
p-Diethylbenzene	ND		ug/kg	8.9	8.9	1
p-Ethyltoluene	ND		ug/kg	8.9	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	8.9	0.35	1
Ethyl ether	ND		ug/kg	11	0.58	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	0.87	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17
 Client ID: RSB15_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 08:34
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 02:29
 Analyst: MV
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.38	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.44	1
Bromodichloromethane	ND		ug/kg	1.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.42	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.24	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.3	0.55	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.40	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.30	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17

Date Collected: 04/10/18 08:34

Client ID: RSB15_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.43	1
Xylenes, Total	ND		ug/kg	2.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.43	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.30	1
Dibromomethane	ND		ug/kg	13	0.30	1
Styrene	ND		ug/kg	2.5	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.63	1
Acetone	ND		ug/kg	13	2.9	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.88	1
Vinyl acetate	ND		ug/kg	13	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.22	1
2-Hexanone	ND		ug/kg	13	0.84	1
Bromochloromethane	ND		ug/kg	6.3	0.45	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.57	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.3	0.31	1
o-Chlorotoluene	ND		ug/kg	6.3	0.28	1
p-Chlorotoluene	ND		ug/kg	6.3	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.44	1
Isopropylbenzene	ND		ug/kg	1.3	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	ND		ug/kg	6.3	0.18	1
Acrylonitrile	ND		ug/kg	13	0.65	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17
Client ID: RSB15_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 08:34
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.24	1
1,4-Dioxane	ND		ug/kg	51	18.	1
p-Diethylbenzene	ND		ug/kg	5.1	5.1	1
p-Ethyltoluene	ND		ug/kg	5.1	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.20	1
Ethyl ether	ND		ug/kg	6.3	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
Client ID: RSBFB01_041018
Sample Location: NY, NY

Date Collected: 04/10/18 00:00
Date Received: 04/10/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/18 15:48
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
 Client ID: RSBFB01_041018
 Sample Location: NY, NY

Date Collected: 04/10/18 00:00
 Date Received: 04/10/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
Client ID: RSBFB01_041018
Sample Location: NY, NY

Date Collected: 04/10/18 00:00
Date Received: 04/10/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	93		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-19
Client ID: RSBTB02_041018
Sample Location: NY, NY

Date Collected: 04/10/18 00:00
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/18 16:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-19
 Client ID: RSBTB02_041018
 Sample Location: NY, NY

Date Collected: 04/10/18 00:00
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-19
Client ID: RSBTB02_041018
Sample Location: NY, NY

Date Collected: 04/10/18 00:00
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	93		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:46
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 18-19 Batch: WG1106019-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:46
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 18-19 Batch: WG1106019-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 09:46
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 18-19 Batch: WG1106019-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	92		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 18:37
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-17 Batch: WG1106150-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	2.7		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 18:37
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-17 Batch: WG1106150-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/18 18:37
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-17 Batch: WG1106150-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1106019-3 WG1106019-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	120		120		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	93		93		63-132	0		20
1,2-Dichloropropane	120		120		70-130	0		20
Dibromochloromethane	96		99		63-130	3		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	91		92		70-130	1		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		99		62-150	1		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	98		99		67-130	1		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	95		94		54-136	1		20
1,1,1,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	100		110		70-130	10		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	140	Q	130		64-130	7		20
Bromomethane	88		91		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1106019-3 WG1106019-4								
Vinyl chloride	130		130		55-140	0		20
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	96		95		70-130	1		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		99		70-130	1		20
Dibromomethane	97		100		70-130	3		20
1,2,3-Trichloropropane	120		120		64-130	0		20
Acrylonitrile	120		130		70-130	8		20
Styrene	135	Q	140	Q	70-130	4		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	110		120		58-148	9		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	130		130		63-138	0		20
Vinyl acetate	120		120		70-130	0		20
4-Methyl-2-pentanone	110		120		59-130	9		20
2-Hexanone	110		110		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1106019-3 WG1106019-4								
Bromochloromethane	95		94		70-130	1		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	99		100		70-130	1		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	97		100		64-130	3		20
Bromobenzene	98		97		70-130	1		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		110		70-130	10		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	93		100		41-144	7		20
Hexachlorobutadiene	71		72		63-130	1		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	95		96		70-130	1		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	84		85		70-130	1		20
1,2,4-Trichlorobenzene	87		88		70-130	1		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	98		99		70-130	1		20
1,4-Dioxane	68		68		56-162	0		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1106019-3 WG1106019-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	98		97		70-130	1		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	120		120		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	93		93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-17 Batch: WG1106150-3 WG1106150-4								
Methylene chloride	75		79		70-130	5		30
1,1-Dichloroethane	104		107		70-130	3		30
Chloroform	95		99		70-130	4		30
Carbon tetrachloride	99		102		70-130	3		30
1,2-Dichloropropane	103		108		70-130	5		30
Dibromochloromethane	85		91		70-130	7		30
1,1,2-Trichloroethane	93		98		70-130	5		30
Tetrachloroethene	95		99		70-130	4		30
Chlorobenzene	92		95		70-130	3		30
Trichlorofluoromethane	125		129		70-139	3		30
1,2-Dichloroethane	96		102		70-130	6		30
1,1,1-Trichloroethane	101		104		70-130	3		30
Bromodichloromethane	97		101		70-130	4		30
trans-1,3-Dichloropropene	90		96		70-130	6		30
cis-1,3-Dichloropropene	97		103		70-130	6		30
1,1-Dichloropropene	109		112		70-130	3		30
Bromoform	83		89		70-130	7		30
1,1,2,2-Tetrachloroethane	93		98		70-130	5		30
Benzene	100		103		70-130	3		30
Toluene	89		92		70-130	3		30
Ethylbenzene	94		96		70-130	2		30
Chloromethane	106		103		52-130	3		30
Bromomethane	149	Q	148	Q	57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-17 Batch: WG1106150-3 WG1106150-4								
Vinyl chloride	126		128		67-130	2		30
Chloroethane	114		114		50-151	0		30
1,1-Dichloroethene	106		122		65-135	14		30
trans-1,2-Dichloroethene	102		106		70-130	4		30
Trichloroethene	102		104		70-130	2		30
1,2-Dichlorobenzene	88		92		70-130	4		30
1,3-Dichlorobenzene	90		93		70-130	3		30
1,4-Dichlorobenzene	89		93		70-130	4		30
Methyl tert butyl ether	97		101		66-130	4		30
p/m-Xylene	94		96		70-130	2		30
o-Xylene	92		95		70-130	3		30
cis-1,2-Dichloroethene	102		104		70-130	2		30
Dibromomethane	98		104		70-130	6		30
Styrene	88		92		70-130	4		30
Dichlorodifluoromethane	120		116		30-146	3		30
Acetone	177	Q	143	Q	54-140	21		30
Carbon disulfide	100		98		59-130	2		30
2-Butanone	113		109		70-130	4		30
Vinyl acetate	99		102		70-130	3		30
4-Methyl-2-pentanone	93		96		70-130	3		30
1,2,3-Trichloropropane	92		99		68-130	7		30
2-Hexanone	94		89		70-130	5		30
Bromochloromethane	96		101		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-17 Batch: WG1106150-3 WG1106150-4								
2,2-Dichloropropane	100		105		70-130	5		30
1,2-Dibromoethane	92		98		70-130	6		30
1,3-Dichloropropane	96		100		69-130	4		30
1,1,1,2-Tetrachloroethane	89		92		70-130	3		30
Bromobenzene	90		93		70-130	3		30
n-Butylbenzene	96		100		70-130	4		30
sec-Butylbenzene	96		98		70-130	2		30
tert-Butylbenzene	93		95		70-130	2		30
o-Chlorotoluene	92		95		70-130	3		30
p-Chlorotoluene	93		94		70-130	1		30
1,2-Dibromo-3-chloropropane	82		87		68-130	6		30
Hexachlorobutadiene	92		94		67-130	2		30
Isopropylbenzene	95		97		70-130	2		30
p-Isopropyltoluene	92		95		70-130	3		30
Naphthalene	83		88		70-130	6		30
Acrylonitrile	93		99		70-130	6		30
n-Propylbenzene	97		99		70-130	2		30
1,2,3-Trichlorobenzene	88		93		70-130	6		30
1,2,4-Trichlorobenzene	90		93		70-130	3		30
1,3,5-Trimethylbenzene	92		94		70-130	2		30
1,2,4-Trimethylbenzene	90		93		70-130	3		30
1,4-Dioxane	94		100		65-136	6		30
p-Diethylbenzene	93		94		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-17 Batch: WG1106150-3 WG1106150-4								
p-Ethyltoluene	94		96		70-130	2		30
1,2,4,5-Tetramethylbenzene	87		89		70-130	2		30
Ethyl ether	106		110		67-130	4		30
trans-1,4-Dichloro-2-butene	94		98		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	97		95		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	99		99		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01
 Client ID: RSB05_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 14:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 12:47
 Analyst: ALS
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01
Client ID: RSB05_0-1
Sample Location: NY, NY

Date Collected: 04/10/18 14:24
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01
Client ID: RSB05_0-1
Sample Location: NY, NY

Date Collected: 04/10/18 14:24
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	92		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02
 Client ID: RSB05_6-7
 Sample Location: NY, NY

Date Collected: 04/10/18 14:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 18:18
 Analyst: ALS
 Percent Solids: 76%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02

Date Collected: 04/10/18 14:31

Client ID: RSB05_6-7

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	71.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02
 Client ID: RSB05_6-7
 Sample Location: NY, NY

Date Collected: 04/10/18 14:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	64		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03
 Client ID: RSB06_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 09:32
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 13:13
 Analyst: ALS
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	44	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03

Date Collected: 04/10/18 09:32

Client ID: RSB06_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	26	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	33	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	25	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	42	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03
 Client ID: RSB06_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 09:32
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	93		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04
 Client ID: RSB06_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 09:40
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 16:22
 Analyst: SZ
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04

Date Collected: 04/10/18 09:40

Client ID: RSB06_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04
Client ID: RSB06_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 09:40
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	83		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05
 Client ID: RSB07_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 10:36
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 13:39
 Analyst: ALS
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	100	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05

Date Collected: 04/10/18 10:36

Client ID: RSB07_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	62	J	ug/kg	120	22.	1
Benzo(a)pyrene	61	J	ug/kg	160	47.	1
Benzo(b)fluoranthene	81	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	58	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	43	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	30	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	47	J	ug/kg	160	27.	1
Pyrene	91	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	38.	1
3-Nitroaniline	ND		ug/kg	190	37.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05
Client ID: RSB07_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 10:36
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	60.	1
Carbazole	ND		ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	88		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06
 Client ID: RSB07_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 10:29
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 06:27
 Analyst: SZ
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 01:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	65	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	4800		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	65	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06

Date Collected: 04/10/18 10:29

Client ID: RSB07_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	2700		ug/kg	120	23.	1
Benzo(a)pyrene	2200		ug/kg	160	49.	1
Benzo(b)fluoranthene	3200		ug/kg	120	34.	1
Benzo(k)fluoranthene	880		ug/kg	120	32.	1
Chrysene	2600		ug/kg	120	21.	1
Acenaphthylene	260		ug/kg	160	31.	1
Anthracene	410		ug/kg	120	39.	1
Benzo(ghi)perylene	1500		ug/kg	160	24.	1
Fluorene	95	J	ug/kg	200	20.	1
Phenanthrene	1700		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	350		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	1700		ug/kg	160	28.	1
Pyrene	4200		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	45	J	ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	37	J	ug/kg	290	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06
Client ID: RSB07_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 10:29
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	430		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	79		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07
 Client ID: RSB08_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 12:08
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 01:15
 Analyst: SZ
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 01:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	35.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	35.	1
Fluoranthene	54	J	ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	71.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07

Date Collected: 04/10/18 12:08

Client ID: RSB08_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	30	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	40	J	ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	30	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	50	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	85.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	440	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07
 Client ID: RSB08_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 12:08
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	90		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08
 Client ID: RSB08_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 12:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 01:39
 Analyst: SZ
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 01:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	96	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08

Date Collected: 04/10/18 12:23

Client ID: RSB08_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	51	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	56	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	48	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	29	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	39	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	30	J	ug/kg	160	27.	1
Pyrene	91	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08
Client ID: RSB08_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 12:23
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	85		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09
 Client ID: RSB08_14-15
 Sample Location: NY, NY

Date Collected: 04/10/18 12:15
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 16:48
 Analyst: SZ
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 00:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	190	25.	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	28.	1
Hexachlorobenzene	ND		ug/kg	140	27.	1
Bis(2-chloroethyl)ether	ND		ug/kg	220	33.	1
2-Chloronaphthalene	ND		ug/kg	240	24.	1
1,2-Dichlorobenzene	ND		ug/kg	240	44.	1
1,3-Dichlorobenzene	ND		ug/kg	240	42.	1
1,4-Dichlorobenzene	ND		ug/kg	240	42.	1
3,3'-Dichlorobenzidine	ND		ug/kg	240	64.	1
2,4-Dinitrotoluene	ND		ug/kg	240	48.	1
2,6-Dinitrotoluene	ND		ug/kg	240	42.	1
Fluoranthene	ND		ug/kg	140	28.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	240	26.	1
4-Bromophenyl phenyl ether	ND		ug/kg	240	37.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	290	41.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	260	24.	1
Hexachlorobutadiene	ND		ug/kg	240	35.	1
Hexachlorocyclopentadiene	ND		ug/kg	690	220	1
Hexachloroethane	ND		ug/kg	190	39.	1
Isophorone	ND		ug/kg	220	31.	1
Naphthalene	ND		ug/kg	240	30.	1
Nitrobenzene	ND		ug/kg	220	36.	1
NDPA/DPA	ND		ug/kg	190	28.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	240	37.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	240	84.	1
Butyl benzyl phthalate	ND		ug/kg	240	61.	1
Di-n-butylphthalate	ND		ug/kg	240	46.	1
Di-n-octylphthalate	ND		ug/kg	240	82.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09

Date Collected: 04/10/18 12:15

Client ID: RSB08_14-15

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	240	22.	1
Dimethyl phthalate	ND		ug/kg	240	51.	1
Benzo(a)anthracene	ND		ug/kg	140	27.	1
Benzo(a)pyrene	ND		ug/kg	190	59.	1
Benzo(b)fluoranthene	ND		ug/kg	140	41.	1
Benzo(k)fluoranthene	ND		ug/kg	140	39.	1
Chrysene	ND		ug/kg	140	25.	1
Acenaphthylene	ND		ug/kg	190	37.	1
Anthracene	ND		ug/kg	140	47.	1
Benzo(ghi)perylene	ND		ug/kg	190	28.	1
Fluorene	ND		ug/kg	240	24.	1
Phenanthrene	ND		ug/kg	140	29.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	28.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	190	34.	1
Pyrene	ND		ug/kg	140	24.	1
Biphenyl	ND		ug/kg	550	56.	1
4-Chloroaniline	ND		ug/kg	240	44.	1
2-Nitroaniline	ND		ug/kg	240	47.	1
3-Nitroaniline	ND		ug/kg	240	46.	1
4-Nitroaniline	ND		ug/kg	240	100	1
Dibenzofuran	ND		ug/kg	240	23.	1
2-Methylnaphthalene	ND		ug/kg	290	29.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	240	25.	1
Acetophenone	ND		ug/kg	240	30.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	46.	1
p-Chloro-m-cresol	ND		ug/kg	240	36.	1
2-Chlorophenol	ND		ug/kg	240	29.	1
2,4-Dichlorophenol	ND		ug/kg	220	39.	1
2,4-Dimethylphenol	ND		ug/kg	240	80.	1
2-Nitrophenol	ND		ug/kg	520	91.	1
4-Nitrophenol	ND		ug/kg	340	99.	1
2,4-Dinitrophenol	ND		ug/kg	1200	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	630	120	1
Pentachlorophenol	ND		ug/kg	190	53.	1
Phenol	ND		ug/kg	240	37.	1
2-Methylphenol	ND		ug/kg	240	38.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	350	38.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09
Client ID: RSB08_14-15
Sample Location: NY, NY

Date Collected: 04/10/18 12:15
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	240	46.	1
Benzoic Acid	ND		ug/kg	780	240	1
Benzyl Alcohol	ND		ug/kg	240	74.	1
Carbazole	ND		ug/kg	240	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	72		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10
 Client ID: RSB13_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 11:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 06:51
 Analyst: SZ
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 01:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	340		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	4000		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	42	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10

Date Collected: 04/10/18 11:23

Client ID: RSB13_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	1800		ug/kg	110	21.	1
Benzo(a)pyrene	1500		ug/kg	150	45.	1
Benzo(b)fluoranthene	1900		ug/kg	110	31.	1
Benzo(k)fluoranthene	490		ug/kg	110	29.	1
Chrysene	1700		ug/kg	110	19.	1
Acenaphthylene	28	J	ug/kg	150	28.	1
Anthracene	890		ug/kg	110	36.	1
Benzo(ghi)perylene	1000		ug/kg	150	22.	1
Fluorene	260		ug/kg	180	18.	1
Phenanthrene	2800		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	200		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1100		ug/kg	150	26.	1
Pyrene	3600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	130	J	ug/kg	180	17.	1
2-Methylnaphthalene	25	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10
Client ID: RSB13_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 11:23
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	100	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	64		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11
 Client ID: RSB13_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 11:28
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 17:14
 Analyst: SZ
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 00:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	2500		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11
Client ID: RSB13_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 11:28
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	1000		ug/kg	110	21.	1
Benzo(a)pyrene	1000		ug/kg	150	46.	1
Benzo(b)fluoranthene	1200		ug/kg	110	32.	1
Benzo(k)fluoranthene	300		ug/kg	110	30.	1
Chrysene	950		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	410		ug/kg	110	37.	1
Benzo(ghi)perylene	580		ug/kg	150	22.	1
Fluorene	88	J	ug/kg	190	18.	1
Phenanthrene	1400		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	640		ug/kg	150	26.	1
Pyrene	2100		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	36	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11
Client ID: RSB13_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 11:28
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	21	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	86		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12
 Client ID: RSB14_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 13:45
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 14:05
 Analyst: ALS
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 00:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12

Date Collected: 04/10/18 13:45

Client ID: RSB14_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	150	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12
Client ID: RSB14_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 13:45
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	88		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13
 Client ID: RSB14_10-11
 Sample Location: NY, NY

Date Collected: 04/10/18 13:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 14:31
 Analyst: ALS
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 00:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13

Date Collected: 04/10/18 13:31

Client ID: RSB14_10-11

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	71.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13
Client ID: RSB14_10-11
Sample Location: NY, NY

Date Collected: 04/10/18 13:31
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	83		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14
 Client ID: RSB14_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 13:39
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 14:57
 Analyst: ALS
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 01:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14

Date Collected: 04/10/18 13:39

Client ID: RSB14_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14
 Client ID: RSB14_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 13:39
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	81		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15
 Client ID: RSB15_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 08:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 17:40
 Analyst: SZ
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 01:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	45	J	ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15

Date Collected: 04/10/18 08:24

Client ID: RSB15_0-1

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	23	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	19	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	37	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	35	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15
 Client ID: RSB15_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 08:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	90		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16
 Client ID: RSB15_11-12
 Sample Location: NY, NY

Date Collected: 04/10/18 08:42
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 15:23
 Analyst: ALS
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 01:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	190	25.	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	27.	1
Hexachlorobenzene	ND		ug/kg	140	27.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	32.	1
2-Chloronaphthalene	ND		ug/kg	240	24.	1
1,2-Dichlorobenzene	ND		ug/kg	240	43.	1
1,3-Dichlorobenzene	ND		ug/kg	240	41.	1
1,4-Dichlorobenzene	ND		ug/kg	240	42.	1
3,3'-Dichlorobenzidine	ND		ug/kg	240	63.	1
2,4-Dinitrotoluene	ND		ug/kg	240	48.	1
2,6-Dinitrotoluene	ND		ug/kg	240	41.	1
Fluoranthene	ND		ug/kg	140	27.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	240	26.	1
4-Bromophenyl phenyl ether	ND		ug/kg	240	36.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	290	41.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	260	24.	1
Hexachlorobutadiene	ND		ug/kg	240	35.	1
Hexachlorocyclopentadiene	ND		ug/kg	680	220	1
Hexachloroethane	ND		ug/kg	190	38.	1
Isophorone	ND		ug/kg	210	31.	1
Naphthalene	ND		ug/kg	240	29.	1
Nitrobenzene	ND		ug/kg	210	35.	1
NDPA/DPA	ND		ug/kg	190	27.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	240	37.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	240	82.	1
Butyl benzyl phthalate	ND		ug/kg	240	60.	1
Di-n-butylphthalate	ND		ug/kg	240	45.	1
Di-n-octylphthalate	ND		ug/kg	240	81.	1

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16

Date Collected: 04/10/18 08:42

Client ID: RSB15_11-12

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	240	22.	1
Dimethyl phthalate	ND		ug/kg	240	50.	1
Benzo(a)anthracene	ND		ug/kg	140	27.	1
Benzo(a)pyrene	ND		ug/kg	190	58.	1
Benzo(b)fluoranthene	ND		ug/kg	140	40.	1
Benzo(k)fluoranthene	ND		ug/kg	140	38.	1
Chrysene	ND		ug/kg	140	25.	1
Acenaphthylene	ND		ug/kg	190	37.	1
Anthracene	ND		ug/kg	140	46.	1
Benzo(ghi)perylene	ND		ug/kg	190	28.	1
Fluorene	ND		ug/kg	240	23.	1
Phenanthrene	ND		ug/kg	140	29.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	28.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	190	33.	1
Pyrene	ND		ug/kg	140	24.	1
Biphenyl	ND		ug/kg	540	55.	1
4-Chloroaniline	ND		ug/kg	240	43.	1
2-Nitroaniline	ND		ug/kg	240	46.	1
3-Nitroaniline	ND		ug/kg	240	45.	1
4-Nitroaniline	ND		ug/kg	240	99.	1
Dibenzofuran	ND		ug/kg	240	22.	1
2-Methylnaphthalene	ND		ug/kg	290	29.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	240	25.	1
Acetophenone	ND		ug/kg	240	30.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	45.	1
p-Chloro-m-cresol	ND		ug/kg	240	36.	1
2-Chlorophenol	ND		ug/kg	240	28.	1
2,4-Dichlorophenol	ND		ug/kg	210	38.	1
2,4-Dimethylphenol	ND		ug/kg	240	79.	1
2-Nitrophenol	ND		ug/kg	520	90.	1
4-Nitrophenol	ND		ug/kg	330	97.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	620	110	1
Pentachlorophenol	ND		ug/kg	190	52.	1
Phenol	ND		ug/kg	240	36.	1
2-Methylphenol	ND		ug/kg	240	37.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	340	37.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16
 Client ID: RSB15_11-12
 Sample Location: NY, NY

Date Collected: 04/10/18 08:42
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	240	46.	1
Benzoic Acid	ND		ug/kg	770	240	1
Benzyl Alcohol	ND		ug/kg	240	73.	1
Carbazole	ND		ug/kg	240	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	88		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17
 Client ID: RSB15_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 08:34
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/12/18 18:06
 Analyst: SZ
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 01:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17
Client ID: RSB15_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 08:34
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	31.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17
Client ID: RSB15_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 08:34
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	84		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
 Client ID: RSBFB01_041018
 Sample Location: NY, NY

Date Collected: 04/10/18 00:00
 Date Received: 04/10/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/13/18 11:29
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 04/12/18 00:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
Client ID: RSBFB01_041018
Sample Location: NY, NY

Date Collected: 04/10/18 00:00
Date Received: 04/10/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	96		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
Client ID: RSBFB01_041018
Sample Location: NY, NY

Date Collected: 04/10/18 00:00
Date Received: 04/10/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/14/18 15:59
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/12/18 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
 Client ID: RSBFB01_041018
 Sample Location: NY, NY

Date Collected: 04/10/18 00:00
 Date Received: 04/10/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	68		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/18 21:56
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-08,10 Batch: WG1105472-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/18 21:56
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-08,10 Batch: WG1105472-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/18 21:56
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/11/18 08:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-08,10 Batch: WG1105472-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	74		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/18 17:59
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/12/18 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05,09,11-17 Batch: WG1105730-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/18 17:59
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/12/18 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05,09,11-17 Batch: WG1105730-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/18 17:59
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/12/18 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05,09,11-17 Batch: WG1105730-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	81		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/13/18 09:19
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 04/12/18 00:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 18 Batch: WG1105737-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/13/18 09:19
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 04/12/18 00:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 18 Batch: WG1105737-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/13/18 09:19
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 04/12/18 00:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 18 Batch: WG1105737-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63

Tentatively Identified Compounds

Total TIC Compounds	14.6	J	ug/l
Aldol Condensate	14.6	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	126	Q	10-120
4-Terphenyl-d14	120		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/14/18 13:48
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/12/18 00:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 18 Batch: WG1105738-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D-SIM

Extraction Method: EPA 3510C

Analytical Date: 04/14/18 13:48

Extraction Date: 04/12/18 00:31

Analyst: KL

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 18 Batch: WG1105738-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	78		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/18 22:52
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/12/18 07:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1105805-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/18 22:52
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/12/18 07:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1105805-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/18 22:52
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/12/18 07:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1105805-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	99		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08,10 Batch: WG1105472-2 WG1105472-3								
Acenaphthene	61		78		31-137	24		50
1,2,4-Trichlorobenzene	63		75		38-107	17		50
Hexachlorobenzene	61		81		40-140	28		50
Bis(2-chloroethyl)ether	60		74		40-140	21		50
2-Chloronaphthalene	61		78		40-140	24		50
1,2-Dichlorobenzene	60		74		40-140	21		50
1,3-Dichlorobenzene	58		74		40-140	24		50
1,4-Dichlorobenzene	58		72		28-104	22		50
3,3'-Dichlorobenzidine	52		66		40-140	24		50
2,4-Dinitrotoluene	75		101		40-132	30		50
2,6-Dinitrotoluene	74		96		40-140	26		50
Fluoranthene	65		82		40-140	23		50
4-Chlorophenyl phenyl ether	62		80		40-140	25		50
4-Bromophenyl phenyl ether	60		81		40-140	30		50
Bis(2-chloroisopropyl)ether	54		74		40-140	31		50
Bis(2-chloroethoxy)methane	63		77		40-117	20		50
Hexachlorobutadiene	64		77		40-140	18		50
Hexachlorocyclopentadiene	69		87		40-140	23		50
Hexachloroethane	59		76		40-140	25		50
Isophorone	59		77		40-140	26		50
Naphthalene	61		75		40-140	21		50
Nitrobenzene	62		83		40-140	29		50
NDPA/DPA	63		83		36-157	27		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08,10 Batch: WG1105472-2 WG1105472-3								
n-Nitrosodi-n-propylamine	58		78		32-121	29		50
Bis(2-ethylhexyl)phthalate	69		92		40-140	29		50
Butyl benzyl phthalate	71		90		40-140	24		50
Di-n-butylphthalate	65		87		40-140	29		50
Di-n-octylphthalate	66		90		40-140	31		50
Diethyl phthalate	64		83		40-140	26		50
Dimethyl phthalate	65		82		40-140	23		50
Benzo(a)anthracene	62		86		40-140	32		50
Benzo(a)pyrene	65		85		40-140	27		50
Benzo(b)fluoranthene	61		76		40-140	22		50
Benzo(k)fluoranthene	66		92		40-140	33		50
Chrysene	62		78		40-140	23		50
Acenaphthylene	66		84		40-140	24		50
Anthracene	63		84		40-140	29		50
Benzo(ghi)perylene	63		83		40-140	27		50
Fluorene	64		82		40-140	25		50
Phenanthrene	61		79		40-140	26		50
Dibenzo(a,h)anthracene	64		84		40-140	27		50
Indeno(1,2,3-cd)pyrene	64		85		40-140	28		50
Pyrene	63		79		35-142	23		50
Biphenyl	65		80		54-104	21		50
4-Chloroaniline	65		82		40-140	23		50
2-Nitroaniline	74		95		47-134	25		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08,10 Batch: WG1105472-2 WG1105472-3								
3-Nitroaniline	60		74		26-129	21		50
4-Nitroaniline	65		83		41-125	24		50
Dibenzofuran	63		80		40-140	24		50
2-Methylnaphthalene	62		78		40-140	23		50
1,2,4,5-Tetrachlorobenzene	66		81		40-117	20		50
Acetophenone	61		79		14-144	26		50
2,4,6-Trichlorophenol	70		88		30-130	23		50
p-Chloro-m-cresol	70		89		26-103	24		50
2-Chlorophenol	67		81		25-102	19		50
2,4-Dichlorophenol	70		86		30-130	21		50
2,4-Dimethylphenol	73		88		30-130	19		50
2-Nitrophenol	74		99		30-130	29		50
4-Nitrophenol	78		103		11-114	28		50
2,4-Dinitrophenol	59		77		4-130	26		50
4,6-Dinitro-o-cresol	76		101		10-130	28		50
Pentachlorophenol	48		64		17-109	29		50
Phenol	67		83		26-90	21		50
2-Methylphenol	62		83		30-130.	29		50
3-Methylphenol/4-Methylphenol	68		89		30-130	27		50
2,4,5-Trichlorophenol	71		90		30-130	24		50
Benzoic Acid	33		38		10-110	14		50
Benzyl Alcohol	65		83		40-140	24		50
Carbazole	60		82		54-128	31		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08,10 Batch: WG1105472-2 WG1105472-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		83		25-120
Phenol-d6	69		85		10-120
Nitrobenzene-d5	59		75		23-120
2-Fluorobiphenyl	60		75		30-120
2,4,6-Tribromophenol	73		95		10-136
4-Terphenyl-d14	63		77		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05,09,11-17 Batch: WG1105730-2 WG1105730-3								
Acenaphthene	89		88		31-137	1		50
1,2,4-Trichlorobenzene	90		88		38-107	2		50
Hexachlorobenzene	94		92		40-140	2		50
Bis(2-chloroethyl)ether	91		90		40-140	1		50
2-Chloronaphthalene	89		87		40-140	2		50
1,2-Dichlorobenzene	82		81		40-140	1		50
1,3-Dichlorobenzene	81		80		40-140	1		50
1,4-Dichlorobenzene	80		79		28-104	1		50
3,3'-Dichlorobenzidine	66		75		40-140	13		50
2,4-Dinitrotoluene	98		96		40-132	2		50
2,6-Dinitrotoluene	107		105		40-140	2		50
Fluoranthene	93		90		40-140	3		50
4-Chlorophenyl phenyl ether	90		88		40-140	2		50
4-Bromophenyl phenyl ether	87		86		40-140	1		50
Bis(2-chloroisopropyl)ether	99		95		40-140	4		50
Bis(2-chloroethoxy)methane	98		95		40-117	3		50
Hexachlorobutadiene	83		82		40-140	1		50
Hexachlorocyclopentadiene	72		71		40-140	1		50
Hexachloroethane	87		86		40-140	1		50
Isophorone	108		104		40-140	4		50
Naphthalene	84		82		40-140	2		50
Nitrobenzene	96		95		40-140	1		50
NDPA/DPA	91		89		36-157	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05,09,11-17 Batch: WG1105730-2 WG1105730-3								
n-Nitrosodi-n-propylamine	104		103		32-121	1		50
Bis(2-ethylhexyl)phthalate	101		98		40-140	3		50
Butyl benzyl phthalate	104		99		40-140	5		50
Di-n-butylphthalate	96		93		40-140	3		50
Di-n-octylphthalate	97		93		40-140	4		50
Diethyl phthalate	95		93		40-140	2		50
Dimethyl phthalate	96		93		40-140	3		50
Benzo(a)anthracene	95		94		40-140	1		50
Benzo(a)pyrene	101		97		40-140	4		50
Benzo(b)fluoranthene	96		94		40-140	2		50
Benzo(k)fluoranthene	96		92		40-140	4		50
Chrysene	95		94		40-140	1		50
Acenaphthylene	97		93		40-140	4		50
Anthracene	92		90		40-140	2		50
Benzo(ghi)perylene	102		97		40-140	5		50
Fluorene	90		90		40-140	0		50
Phenanthrene	90		88		40-140	2		50
Dibenzo(a,h)anthracene	99		95		40-140	4		50
Indeno(1,2,3-cd)pyrene	101		97		40-140	4		50
Pyrene	92		89		35-142	3		50
Biphenyl	89		87		54-104	2		50
4-Chloroaniline	97		95		40-140	2		50
2-Nitroaniline	99		99		47-134	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05,09,11-17 Batch: WG1105730-2 WG1105730-3								
3-Nitroaniline	76		85		26-129	11		50
4-Nitroaniline	90		89		41-125	1		50
Dibenzofuran	88		86		40-140	2		50
2-Methylnaphthalene	88		85		40-140	3		50
1,2,4,5-Tetrachlorobenzene	88		86		40-117	2		50
Acetophenone	99		97		14-144	2		50
2,4,6-Trichlorophenol	97		94		30-130	3		50
p-Chloro-m-cresol	104	Q	100		26-103	4		50
2-Chlorophenol	90		88		25-102	2		50
2,4-Dichlorophenol	96		95		30-130	1		50
2,4-Dimethylphenol	103		101		30-130	2		50
2-Nitrophenol	97		95		30-130	2		50
4-Nitrophenol	101		98		11-114	3		50
2,4-Dinitrophenol	58		58		4-130	0		50
4,6-Dinitro-o-cresol	93		92		10-130	1		50
Pentachlorophenol	68		68		17-109	0		50
Phenol	88		87		26-90	1		50
2-Methylphenol	101		100		30-130.	1		50
3-Methylphenol/4-Methylphenol	106		105		30-130	1		50
2,4,5-Trichlorophenol	102		99		30-130	3		50
Benzoic Acid	32		25		10-110	25		50
Benzyl Alcohol	100		96		40-140	4		50
Carbazole	91		89		54-128	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05,09,11-17 Batch: WG1105730-2 WG1105730-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		79		25-120
Phenol-d6	91		88		10-120
Nitrobenzene-d5	80		79		23-120
2-Fluorobiphenyl	73		71		30-120
2,4,6-Tribromophenol	90		90		10-136
4-Terphenyl-d14	77		74		18-120

Lab Control Sample Analysis

Batch Quality Control

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Lab Number: L1812435

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1105737-2 WG1105737-3								
Acenaphthene	85		82		37-111	4		30
1,2,4-Trichlorobenzene	66		64		39-98	3		30
Hexachlorobenzene	96		96		40-140	0		30
Bis(2-chloroethyl)ether	85		82		40-140	4		30
2-Chloronaphthalene	79		76		40-140	4		30
1,2-Dichlorobenzene	64		61		40-140	5		30
1,3-Dichlorobenzene	61		58		40-140	5		30
1,4-Dichlorobenzene	62		59		36-97	5		30
3,3'-Dichlorobenzidine	76		83		40-140	9		30
2,4-Dinitrotoluene	108		107		48-143	1		30
2,6-Dinitrotoluene	104		101		40-140	3		30
Fluoranthene	100		99		40-140	1		30
4-Chlorophenyl phenyl ether	88		85		40-140	3		30
4-Bromophenyl phenyl ether	95		92		40-140	3		30
Bis(2-chloroisopropyl)ether	61		59		40-140	3		30
Bis(2-chloroethoxy)methane	92		90		40-140	2		30
Hexachlorobutadiene	58		55		40-140	5		30
Hexachlorocyclopentadiene	48		45		40-140	6		30
Hexachloroethane	59		56		40-140	5		30
Isophorone	97		95		40-140	2		30
Naphthalene	71		68		40-140	4		30
Nitrobenzene	84		81		40-140	4		30
NDPA/DPA	99		98		40-140	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1105737-2 WG1105737-3								
n-Nitrosodi-n-propylamine	94		92		29-132	2		30
Bis(2-ethylhexyl)phthalate	94		92		40-140	2		30
Butyl benzyl phthalate	97		97		40-140	0		30
Di-n-butylphthalate	105		103		40-140	2		30
Di-n-octylphthalate	99		96		40-140	3		30
Diethyl phthalate	99		98		40-140	1		30
Dimethyl phthalate	97		96		40-140	1		30
Benzo(a)anthracene	98		97		40-140	1		30
Benzo(a)pyrene	112		110		40-140	2		30
Benzo(b)fluoranthene	114		106		40-140	7		30
Benzo(k)fluoranthene	101		106		40-140	5		30
Chrysene	93		93		40-140	0		30
Acenaphthylene	89		86		45-123	3		30
Anthracene	96		94		40-140	2		30
Benzo(ghi)perylene	109		105		40-140	4		30
Fluorene	94		90		40-140	4		30
Phenanthrene	92		90		40-140	2		30
Dibenzo(a,h)anthracene	110		102		40-140	8		30
Indeno(1,2,3-cd)pyrene	90		87		40-140	3		30
Pyrene	96		96		26-127	0		30
Biphenyl	80		76		40-140	5		30
4-Chloroaniline	60		65		40-140	8		30
2-Nitroaniline	107		105		52-143	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1105737-2 WG1105737-3								
3-Nitroaniline	76		84		25-145	10		30
4-Nitroaniline	99		103		51-143	4		30
Dibenzofuran	87		84		40-140	4		30
2-Methylnaphthalene	75		72		40-140	4		30
1,2,4,5-Tetrachlorobenzene	72		69		2-134	4		30
Acetophenone	94		92		39-129	2		30
2,4,6-Trichlorophenol	103		100		30-130	3		30
p-Chloro-m-cresol	103	Q	100	Q	23-97	3		30
2-Chlorophenol	93		88		27-123	6		30
2,4-Dichlorophenol	101		99		30-130	2		30
2,4-Dimethylphenol	74		82		30-130	10		30
2-Nitrophenol	102		100		30-130	2		30
4-Nitrophenol	63		61		10-80	3		30
2,4-Dinitrophenol	85		70		20-130	19		30
4,6-Dinitro-o-cresol	110		106		20-164	4		30
Pentachlorophenol	82		73		9-103	12		30
Phenol	45		43		12-110	5		30
2-Methylphenol	86		82		30-130	5		30
3-Methylphenol/4-Methylphenol	87		86		30-130	1		30
2,4,5-Trichlorophenol	104		96		30-130	8		30
Benzoic Acid	38		22		10-164	53	Q	30
Benzyl Alcohol	80		77		26-116	4		30
Carbazole	106		105		55-144	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1105737-2 WG1105737-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		72		21-120
Phenol-d6	58		55		10-120
Nitrobenzene-d5	88		85		23-120
2-Fluorobiphenyl	88		84		15-120
2,4,6-Tribromophenol	130	Q	127	Q	10-120
4-Terphenyl-d14	103		100		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 18 Batch: WG1105738-2 WG1105738-3								
Acenaphthene	77		80		40-140	4		40
2-Chloronaphthalene	66		67		40-140	2		40
Fluoranthene	78		86		40-140	10		40
Hexachlorobutadiene	55		56		40-140	2		40
Naphthalene	64		64		40-140	0		40
Benzo(a)anthracene	75		81		40-140	8		40
Benzo(a)pyrene	76		82		40-140	8		40
Benzo(b)fluoranthene	76		83		40-140	9		40
Benzo(k)fluoranthene	79		86		40-140	8		40
Chrysene	77		84		40-140	9		40
Acenaphthylene	72		75		40-140	4		40
Anthracene	77		84		40-140	9		40
Benzo(ghi)perylene	79		86		40-140	8		40
Fluorene	82		87		40-140	6		40
Phenanthrene	74		81		40-140	9		40
Dibenzo(a,h)anthracene	83		90		40-140	8		40
Indeno(1,2,3-cd)pyrene	81		88		40-140	8		40
Pyrene	77		84		40-140	9		40
2-Methylnaphthalene	65		66		40-140	2		40
Pentachlorophenol	71		72		40-140	1		40
Hexachlorobenzene	73		79		40-140	8		40
Hexachloroethane	55		52		40-140	6		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 18 Batch: WG1105738-2 WG1105738-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		51		21-120
Phenol-d6	40		39		10-120
Nitrobenzene-d5	72		70		23-120
2-Fluorobiphenyl	66		67		15-120
2,4,6-Tribromophenol	97		103		10-120
4-Terphenyl-d14	81		86		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1105805-2 WG1105805-3								
Acenaphthene	84		82		31-137	2		50
1,2,4-Trichlorobenzene	86		88		38-107	2		50
Hexachlorobenzene	94		87		40-140	8		50
Bis(2-chloroethyl)ether	75		78		40-140	4		50
2-Chloronaphthalene	89		85		40-140	5		50
1,2-Dichlorobenzene	86		80		40-140	7		50
1,3-Dichlorobenzene	83		80		40-140	4		50
1,4-Dichlorobenzene	80		80		28-104	0		50
3,3'-Dichlorobenzidine	60		63		40-140	5		50
2,4-Dinitrotoluene	91		87		40-132	4		50
2,6-Dinitrotoluene	90		85		40-140	6		50
Fluoranthene	86		86		40-140	0		50
4-Chlorophenyl phenyl ether	89		87		40-140	2		50
4-Bromophenyl phenyl ether	93		87		40-140	7		50
Bis(2-chloroisopropyl)ether	62		63		40-140	2		50
Bis(2-chloroethoxy)methane	83		82		40-117	1		50
Hexachlorobutadiene	91		87		40-140	4		50
Hexachlorocyclopentadiene	65		70		40-140	7		50
Hexachloroethane	86		83		40-140	4		50
Isophorone	85		84		40-140	1		50
Naphthalene	86		81		40-140	6		50
Nitrobenzene	88		87		40-140	1		50
NDPA/DPA	94		89		36-157	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1105805-2 WG1105805-3								
n-Nitrosodi-n-propylamine	85		82		32-121	4		50
Bis(2-ethylhexyl)phthalate	100		101		40-140	1		50
Butyl benzyl phthalate	94		90		40-140	4		50
Di-n-butylphthalate	93		94		40-140	1		50
Di-n-octylphthalate	101		103		40-140	2		50
Diethyl phthalate	93		90		40-140	3		50
Dimethyl phthalate	93		91		40-140	2		50
Benzo(a)anthracene	86		85		40-140	1		50
Benzo(a)pyrene	89		86		40-140	3		50
Benzo(b)fluoranthene	85		87		40-140	2		50
Benzo(k)fluoranthene	92		86		40-140	7		50
Chrysene	88		84		40-140	5		50
Acenaphthylene	92		91		40-140	1		50
Anthracene	88		87		40-140	1		50
Benzo(ghi)perylene	82		80		40-140	2		50
Fluorene	90		86		40-140	5		50
Phenanthrene	84		84		40-140	0		50
Dibenzo(a,h)anthracene	83		81		40-140	2		50
Indeno(1,2,3-cd)pyrene	84		82		40-140	2		50
Pyrene	87		85		35-142	2		50
Biphenyl	97		92		54-104	5		50
4-Chloroaniline	85		49		40-140	54	Q	50
2-Nitroaniline	92		91		47-134	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1105805-2 WG1105805-3								
3-Nitroaniline	74		68		26-129	8		50
4-Nitroaniline	87		84		41-125	4		50
Dibenzofuran	89		86		40-140	3		50
2-Methylnaphthalene	90		87		40-140	3		50
1,2,4,5-Tetrachlorobenzene	92		93		40-117	1		50
Acetophenone	95		96		14-144	1		50
2,4,6-Trichlorophenol	90		86		30-130	5		50
p-Chloro-m-cresol	97		90		26-103	7		50
2-Chlorophenol	87		89		25-102	2		50
2,4-Dichlorophenol	96		94		30-130	2		50
2,4-Dimethylphenol	94		97		30-130	3		50
2-Nitrophenol	88		89		30-130	1		50
4-Nitrophenol	76		74		11-114	3		50
2,4-Dinitrophenol	44		50		4-130	13		50
4,6-Dinitro-o-cresol	79		79		10-130	0		50
Pentachlorophenol	61		64		17-109	5		50
Phenol	80		82		26-90	2		50
2-Methylphenol	87		84		30-130.	4		50
3-Methylphenol/4-Methylphenol	95		92		30-130	3		50
2,4,5-Trichlorophenol	90		91		30-130	1		50
Benzoic Acid	16		18		10-110	12		50
Benzyl Alcohol	94		92		40-140	2		50
Carbazole	87		87		54-128	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1105805-2 WG1105805-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	80		79		25-120
Phenol-d6	82		82		10-120
Nitrobenzene-d5	77		77		23-120
2-Fluorobiphenyl	80		75		30-120
2,4,6-Tribromophenol	89		85		10-136
4-Terphenyl-d14	79		77		18-120

PCBS

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01
 Client ID: RSB05_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 14:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 03:20
 Analyst: WR
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:04
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	4.05	1	A
Aroclor 1221	ND		ug/kg	35.7	5.44	1	A
Aroclor 1232	ND		ug/kg	35.7	3.52	1	A
Aroclor 1242	ND		ug/kg	35.7	4.37	1	A
Aroclor 1248	ND		ug/kg	35.7	4.01	1	A
Aroclor 1254	ND		ug/kg	35.7	2.92	1	A
Aroclor 1260	ND		ug/kg	35.7	3.73	1	A
Aroclor 1262	ND		ug/kg	35.7	2.94	1	A
Aroclor 1268	ND		ug/kg	35.7	2.53	1	A
PCBs, Total	ND		ug/kg	35.7	2.53	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02
 Client ID: RSB05_6-7
 Sample Location: NY, NY

Date Collected: 04/10/18 14:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 12:24
 Analyst: WR
 Percent Solids: 76%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 08:11
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.5	4.71	1	A
Aroclor 1221	ND		ug/kg	41.5	6.32	1	A
Aroclor 1232	ND		ug/kg	41.5	4.09	1	A
Aroclor 1242	ND		ug/kg	41.5	5.08	1	A
Aroclor 1248	ND		ug/kg	41.5	4.66	1	A
Aroclor 1254	ND		ug/kg	41.5	3.39	1	A
Aroclor 1260	ND		ug/kg	41.5	4.34	1	A
Aroclor 1262	ND		ug/kg	41.5	3.41	1	A
Aroclor 1268	ND		ug/kg	41.5	2.94	1	A
PCBs, Total	ND		ug/kg	41.5	2.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03
 Client ID: RSB06_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 09:32
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 03:33
 Analyst: WR
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:04
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.1	4.32	1	A
Aroclor 1221	ND		ug/kg	38.1	5.80	1	A
Aroclor 1232	ND		ug/kg	38.1	3.75	1	A
Aroclor 1242	ND		ug/kg	38.1	4.67	1	A
Aroclor 1248	ND		ug/kg	38.1	4.28	1	A
Aroclor 1254	ND		ug/kg	38.1	3.11	1	A
Aroclor 1260	ND		ug/kg	38.1	3.98	1	A
Aroclor 1262	ND		ug/kg	38.1	3.13	1	A
Aroclor 1268	ND		ug/kg	38.1	2.70	1	A
PCBs, Total	ND		ug/kg	38.1	2.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04
 Client ID: RSB06_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 09:40
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 03:46
 Analyst: WR
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:04
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.5	4.59	1	A
Aroclor 1221	ND		ug/kg	40.5	6.16	1	A
Aroclor 1232	ND		ug/kg	40.5	3.98	1	A
Aroclor 1242	ND		ug/kg	40.5	4.95	1	A
Aroclor 1248	ND		ug/kg	40.5	4.54	1	A
Aroclor 1254	ND		ug/kg	40.5	3.30	1	A
Aroclor 1260	ND		ug/kg	40.5	4.23	1	A
Aroclor 1262	ND		ug/kg	40.5	3.33	1	A
Aroclor 1268	ND		ug/kg	40.5	2.86	1	A
PCBs, Total	ND		ug/kg	40.5	2.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	40		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	39		30-150	B
Decachlorobiphenyl	35		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05
 Client ID: RSB07_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 10:36
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 04:39
 Analyst: WR
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:04
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.9	4.18	1	A
Aroclor 1221	ND		ug/kg	36.9	5.62	1	A
Aroclor 1232	ND		ug/kg	36.9	3.63	1	A
Aroclor 1242	ND		ug/kg	36.9	4.52	1	A
Aroclor 1248	ND		ug/kg	36.9	4.14	1	A
Aroclor 1254	6.29	J	ug/kg	36.9	3.01	1	B
Aroclor 1260	ND		ug/kg	36.9	3.85	1	A
Aroclor 1262	ND		ug/kg	36.9	3.03	1	A
Aroclor 1268	ND		ug/kg	36.9	2.61	1	A
PCBs, Total	6.29	J	ug/kg	36.9	2.61	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06
 Client ID: RSB07_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 10:29
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 04:52
 Analyst: WR
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	4.37	1	A
Aroclor 1221	ND		ug/kg	38.5	5.86	1	A
Aroclor 1232	ND		ug/kg	38.5	3.79	1	A
Aroclor 1242	ND		ug/kg	38.5	4.72	1	A
Aroclor 1248	ND		ug/kg	38.5	4.32	1	A
Aroclor 1254	ND		ug/kg	38.5	3.14	1	A
Aroclor 1260	ND		ug/kg	38.5	4.02	1	A
Aroclor 1262	ND		ug/kg	38.5	3.17	1	A
Aroclor 1268	ND		ug/kg	38.5	2.73	1	A
PCBs, Total	ND		ug/kg	38.5	2.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07
Client ID: RSB08_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 12:08
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/13/18 05:05
Analyst: WR
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/12/18 04:30
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.4	4.69	1	A
Aroclor 1221	ND		ug/kg	41.4	6.29	1	A
Aroclor 1232	ND		ug/kg	41.4	4.07	1	A
Aroclor 1242	ND		ug/kg	41.4	5.06	1	A
Aroclor 1248	ND		ug/kg	41.4	4.64	1	A
Aroclor 1254	ND		ug/kg	41.4	3.37	1	A
Aroclor 1260	ND		ug/kg	41.4	4.32	1	A
Aroclor 1262	ND		ug/kg	41.4	3.40	1	A
Aroclor 1268	ND		ug/kg	41.4	2.93	1	A
PCBs, Total	ND		ug/kg	41.4	2.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08
 Client ID: RSB08_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 12:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 05:18
 Analyst: WR
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.2	4.45	1	A
Aroclor 1221	ND		ug/kg	39.2	5.97	1	A
Aroclor 1232	ND		ug/kg	39.2	3.86	1	A
Aroclor 1242	ND		ug/kg	39.2	4.80	1	A
Aroclor 1248	ND		ug/kg	39.2	4.40	1	A
Aroclor 1254	ND		ug/kg	39.2	3.20	1	A
Aroclor 1260	ND		ug/kg	39.2	4.09	1	A
Aroclor 1262	ND		ug/kg	39.2	3.22	1	A
Aroclor 1268	ND		ug/kg	39.2	2.78	1	A
PCBs, Total	ND		ug/kg	39.2	2.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09
Client ID: RSB08_14-15
Sample Location: NY, NY

Date Collected: 04/10/18 12:15
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/13/18 05:44
Analyst: WR
Percent Solids: 68%

Extraction Method: EPA 3546
Extraction Date: 04/12/18 04:31
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	46.6	5.28	1	A
Aroclor 1221	ND		ug/kg	46.6	7.09	1	A
Aroclor 1232	ND		ug/kg	46.6	4.58	1	A
Aroclor 1242	ND		ug/kg	46.6	5.70	1	A
Aroclor 1248	ND		ug/kg	46.6	5.23	1	A
Aroclor 1254	ND		ug/kg	46.6	3.80	1	A
Aroclor 1260	ND		ug/kg	46.6	4.86	1	A
Aroclor 1262	ND		ug/kg	46.6	3.83	1	A
Aroclor 1268	ND		ug/kg	46.6	3.30	1	A
PCBs, Total	ND		ug/kg	46.6	3.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	108		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10
Client ID: RSB13_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 11:23
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/13/18 05:31
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 04/12/18 04:32
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	4.01	1	A
Aroclor 1221	ND		ug/kg	35.4	5.38	1	A
Aroclor 1232	ND		ug/kg	35.4	3.48	1	A
Aroclor 1242	ND		ug/kg	35.4	4.33	1	A
Aroclor 1248	ND		ug/kg	35.4	3.97	1	A
Aroclor 1254	ND		ug/kg	35.4	2.88	1	A
Aroclor 1260	ND		ug/kg	35.4	3.69	1	A
Aroclor 1262	ND		ug/kg	35.4	2.91	1	A
Aroclor 1268	ND		ug/kg	35.4	2.50	1	A
PCBs, Total	ND		ug/kg	35.4	2.50	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11
 Client ID: RSB13_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 11:28
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 12:50
 Analyst: WR
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:38
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	4.22	1	A
Aroclor 1221	ND		ug/kg	37.2	5.66	1	A
Aroclor 1232	ND		ug/kg	37.2	3.66	1	A
Aroclor 1242	ND		ug/kg	37.2	4.55	1	A
Aroclor 1248	ND		ug/kg	37.2	4.17	1	A
Aroclor 1254	ND		ug/kg	37.2	3.03	1	A
Aroclor 1260	ND		ug/kg	37.2	3.88	1	A
Aroclor 1262	ND		ug/kg	37.2	3.06	1	A
Aroclor 1268	ND		ug/kg	37.2	2.63	1	A
PCBs, Total	ND		ug/kg	37.2	2.63	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12
 Client ID: RSB14_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 13:45
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 13:04
 Analyst: WR
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:39
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.0	3.97	1	A
Aroclor 1221	ND		ug/kg	35.0	5.32	1	A
Aroclor 1232	ND		ug/kg	35.0	3.44	1	A
Aroclor 1242	ND		ug/kg	35.0	4.28	1	A
Aroclor 1248	ND		ug/kg	35.0	3.92	1	A
Aroclor 1254	ND		ug/kg	35.0	2.85	1	A
Aroclor 1260	ND		ug/kg	35.0	3.65	1	A
Aroclor 1262	ND		ug/kg	35.0	2.88	1	A
Aroclor 1268	ND		ug/kg	35.0	2.48	1	A
PCBs, Total	ND		ug/kg	35.0	2.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13
 Client ID: RSB14_10-11
 Sample Location: NY, NY

Date Collected: 04/10/18 13:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 13:17
 Analyst: WR
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:40
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.2	4.67	1	A
Aroclor 1221	ND		ug/kg	41.2	6.27	1	A
Aroclor 1232	ND		ug/kg	41.2	4.05	1	A
Aroclor 1242	ND		ug/kg	41.2	5.04	1	A
Aroclor 1248	ND		ug/kg	41.2	4.62	1	A
Aroclor 1254	ND		ug/kg	41.2	3.36	1	A
Aroclor 1260	ND		ug/kg	41.2	4.30	1	A
Aroclor 1262	ND		ug/kg	41.2	3.39	1	A
Aroclor 1268	ND		ug/kg	41.2	2.92	1	A
PCBs, Total	ND		ug/kg	41.2	2.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14
 Client ID: RSB14_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 13:39
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 12:37
 Analyst: WR
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 08:11
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.5	4.48	1	A
Aroclor 1221	ND		ug/kg	39.5	6.01	1	A
Aroclor 1232	ND		ug/kg	39.5	3.88	1	A
Aroclor 1242	ND		ug/kg	39.5	4.83	1	A
Aroclor 1248	ND		ug/kg	39.5	4.43	1	A
Aroclor 1254	ND		ug/kg	39.5	3.22	1	A
Aroclor 1260	ND		ug/kg	39.5	4.12	1	A
Aroclor 1262	ND		ug/kg	39.5	3.24	1	A
Aroclor 1268	ND		ug/kg	39.5	2.79	1	A
PCBs, Total	ND		ug/kg	39.5	2.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15
 Client ID: RSB15_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 08:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 11:43
 Analyst: WR
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 08:11
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	4.08	1	A
Aroclor 1221	ND		ug/kg	35.9	5.47	1	A
Aroclor 1232	ND		ug/kg	35.9	3.54	1	A
Aroclor 1242	ND		ug/kg	35.9	4.40	1	A
Aroclor 1248	ND		ug/kg	35.9	4.03	1	A
Aroclor 1254	ND		ug/kg	35.9	2.93	1	A
Aroclor 1260	ND		ug/kg	35.9	3.75	1	A
Aroclor 1262	ND		ug/kg	35.9	2.96	1	A
Aroclor 1268	ND		ug/kg	35.9	2.54	1	A
PCBs, Total	ND		ug/kg	35.9	2.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16
 Client ID: RSB15_11-12
 Sample Location: NY, NY

Date Collected: 04/10/18 08:42
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 11:56
 Analyst: WR
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 08:11
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	48.2	5.47	1	A
Aroclor 1221	ND		ug/kg	48.2	7.34	1	A
Aroclor 1232	ND		ug/kg	48.2	4.75	1	A
Aroclor 1242	ND		ug/kg	48.2	5.90	1	A
Aroclor 1248	ND		ug/kg	48.2	5.41	1	A
Aroclor 1254	ND		ug/kg	48.2	3.94	1	A
Aroclor 1260	ND		ug/kg	48.2	5.04	1	A
Aroclor 1262	ND		ug/kg	48.2	3.96	1	A
Aroclor 1268	ND		ug/kg	48.2	3.41	1	A
PCBs, Total	ND		ug/kg	48.2	3.41	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17
 Client ID: RSB15_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 08:34
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/13/18 12:09
 Analyst: WR
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 08:11
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.4	4.58	1	A
Aroclor 1221	ND		ug/kg	40.4	6.15	1	A
Aroclor 1232	ND		ug/kg	40.4	3.98	1	A
Aroclor 1242	ND		ug/kg	40.4	4.95	1	A
Aroclor 1248	ND		ug/kg	40.4	4.54	1	A
Aroclor 1254	ND		ug/kg	40.4	3.30	1	A
Aroclor 1260	ND		ug/kg	40.4	4.22	1	A
Aroclor 1262	ND		ug/kg	40.4	3.32	1	A
Aroclor 1268	ND		ug/kg	40.4	2.86	1	A
PCBs, Total	ND		ug/kg	40.4	2.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
Client ID: RSBFB01_041018
Sample Location: NY, NY

Date Collected: 04/10/18 00:00
Date Received: 04/10/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/16/18 09:03
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 04/13/18 01:11
Cleanup Method: EPA 3665A
Cleanup Date: 04/13/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/13/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	108		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
 Analytical Date: 04/13/18 05:57
 Analyst: WR

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 04:04
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/12/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03-13 Batch: WG1105759-1						
Aroclor 1016	ND		ug/kg	33.1	3.75	A
Aroclor 1221	ND		ug/kg	33.1	5.03	A
Aroclor 1232	ND		ug/kg	33.1	3.25	A
Aroclor 1242	ND		ug/kg	33.1	4.05	A
Aroclor 1248	ND		ug/kg	33.1	3.71	A
Aroclor 1254	ND		ug/kg	33.1	2.70	A
Aroclor 1260	ND		ug/kg	33.1	3.45	A
Aroclor 1262	ND		ug/kg	33.1	2.72	A
Aroclor 1268	ND		ug/kg	33.1	2.34	A
PCBs, Total	ND		ug/kg	33.1	2.34	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/13/18 13:01
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 04/12/18 08:11
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02,14-17 Batch: WG1105817-1						
Aroclor 1016	ND		ug/kg	32.8	3.72	A
Aroclor 1221	ND		ug/kg	32.8	4.99	A
Aroclor 1232	ND		ug/kg	32.8	3.23	A
Aroclor 1242	ND		ug/kg	32.8	4.02	A
Aroclor 1248	ND		ug/kg	32.8	3.68	A
Aroclor 1254	ND		ug/kg	32.8	2.68	A
Aroclor 1260	ND		ug/kg	32.8	3.42	A
Aroclor 1262	ND		ug/kg	32.8	2.70	A
Aroclor 1268	ND		ug/kg	32.8	2.32	A
PCBs, Total	ND		ug/kg	32.8	2.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/16/18 07:42
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 04/13/18 01:11
Cleanup Method: EPA 3665A
Cleanup Date: 04/13/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/13/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 18 Batch: WG1106103-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	117		30-150	A
Decachlorobiphenyl	129		30-150	A
2,4,5,6-Tetrachloro-m-xylene	115		30-150	B
Decachlorobiphenyl	134		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03-13 Batch: WG1105759-2 WG1105759-3									
Aroclor 1016	72		76		40-140	5		50	A
Aroclor 1260	68		70		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		87		30-150	A
Decachlorobiphenyl	69		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		65		30-150	B
Decachlorobiphenyl	68		61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02,14-17 Batch: WG1105817-2 WG1105817-3									
Aroclor 1016	76		70		40-140	8		50	A
Aroclor 1260	72		66		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		88		30-150	A
Decachlorobiphenyl	84		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		89		30-150	B
Decachlorobiphenyl	99		88		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 18 Batch: WG1106103-2 WG1106103-3									
Aroclor 1016	99		88		40-140	12		50	A
Aroclor 1260	110		100		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	115		107		30-150	A
Decachlorobiphenyl	127		119		30-150	A
2,4,5,6-Tetrachloro-m-xylene	116		105		30-150	B
Decachlorobiphenyl	137		125		30-150	B

PESTICIDES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01
 Client ID: RSB05_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 14:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/13/18 00:24
 Analyst: KEG
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	A
Lindane	ND		ug/kg	0.740	0.331	1	A
Alpha-BHC	ND		ug/kg	0.740	0.210	1	A
Beta-BHC	ND		ug/kg	1.78	0.673	1	A
Heptachlor	ND		ug/kg	0.888	0.398	1	A
Aldrin	ND		ug/kg	1.78	0.625	1	A
Heptachlor epoxide	ND		ug/kg	3.33	0.998	1	A
Endrin	ND		ug/kg	0.740	0.303	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.777	1	A
Endrin ketone	ND		ug/kg	1.78	0.457	1	A
Dieldrin	ND		ug/kg	1.11	0.555	1	A
4,4'-DDE	ND		ug/kg	1.78	0.410	1	A
4,4'-DDD	ND		ug/kg	1.78	0.633	1	A
4,4'-DDT	ND		ug/kg	3.33	1.43	1	A
Endosulfan I	ND		ug/kg	1.78	0.419	1	A
Endosulfan II	ND		ug/kg	1.78	0.593	1	A
Endosulfan sulfate	ND		ug/kg	0.740	0.352	1	A
Methoxychlor	ND		ug/kg	3.33	1.04	1	A
Toxaphene	ND		ug/kg	33.3	9.32	1	A
cis-Chlordane	ND		ug/kg	2.22	0.618	1	A
trans-Chlordane	ND		ug/kg	2.22	0.586	1	A
Chlordane	ND		ug/kg	14.4	5.88	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01
 Client ID: RSB05_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 14:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	150		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	121		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01
 Client ID: RSB05_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 14:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/12/18 23:53
 Analyst: SL
 Percent Solids: 89%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	185	11.7	1	A
2,4,5-T	ND		ug/kg	185	5.74	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	121		30-150	A
DCAA	124		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02
Client ID: RSB05_6-7
Sample Location: NY, NY

Date Collected: 04/10/18 14:31
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/13/18 00:37
Analyst: KEG
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 04/12/18 05:21
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.392	1	A
Lindane	ND		ug/kg	0.835	0.373	1	A
Alpha-BHC	ND		ug/kg	0.835	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.760	1	A
Heptachlor	ND		ug/kg	1.00	0.449	1	A
Aldrin	ND		ug/kg	2.00	0.706	1	A
Heptachlor epoxide	ND		ug/kg	3.76	1.13	1	A
Endrin	ND		ug/kg	0.835	0.342	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.877	1	A
Endrin ketone	ND		ug/kg	2.00	0.516	1	A
Dieldrin	ND		ug/kg	1.25	0.626	1	A
4,4'-DDE	ND		ug/kg	2.00	0.463	1	A
4,4'-DDD	ND		ug/kg	2.00	0.715	1	A
4,4'-DDT	ND		ug/kg	3.76	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.473	1	A
Endosulfan II	ND		ug/kg	2.00	0.670	1	A
Endosulfan sulfate	ND		ug/kg	0.835	0.397	1	A
Methoxychlor	ND		ug/kg	3.76	1.17	1	A
Toxaphene	ND		ug/kg	37.6	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.698	1	A
trans-Chlordane	ND		ug/kg	2.50	0.661	1	A
Chlordane	ND		ug/kg	16.3	6.64	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812435**Project Number:** 170505502**Report Date:** 04/19/18**SAMPLE RESULTS**

Lab ID: L1812435-02

Date Collected: 04/10/18 14:31

Client ID: RSB05_6-7

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	123		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02
 Client ID: RSB05_6-7
 Sample Location: NY, NY

Date Collected: 04/10/18 14:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/13/18 00:12
 Analyst: SL
 Percent Solids: 76%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	219	13.8	1	A
2,4,5-T	ND		ug/kg	219	6.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	219	5.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	114		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03
Client ID: RSB06_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 09:32
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/12/18 21:34
Analyst: KEG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/12/18 05:21
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.351	1	A
Lindane	ND		ug/kg	0.748	0.334	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.680	1	A
Heptachlor	ND		ug/kg	0.897	0.402	1	A
Aldrin	ND		ug/kg	1.79	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.748	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.785	1	A
Endrin ketone	ND		ug/kg	1.79	0.462	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	ND		ug/kg	1.79	0.415	1	A
4,4'-DDD	ND		ug/kg	1.79	0.640	1	A
4,4'-DDT	ND		ug/kg	3.36	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.424	1	A
Endosulfan II	ND		ug/kg	1.79	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.36	1.05	1	A
Toxaphene	ND		ug/kg	33.6	9.42	1	A
cis-Chlordane	ND		ug/kg	2.24	0.625	1	A
trans-Chlordane	ND		ug/kg	2.24	0.592	1	A
Chlordane	ND		ug/kg	14.6	5.94	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03
 Client ID: RSB06_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 09:32
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	134		30-150	B
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	102		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03
 Client ID: RSB06_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 09:32
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/13/18 00:49
 Analyst: SL
 Percent Solids: 87%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	191	12.0	1	A
2,4,5-T	ND		ug/kg	191	5.93	1	A
2,4,5-TP (Silvex)	ND		ug/kg	191	5.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	141		30-150	A
DCAA	120		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04
 Client ID: RSB06_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 09:40
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 21:46
 Analyst: KEG
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.372	1	A
Lindane	ND		ug/kg	0.792	0.354	1	A
Alpha-BHC	ND		ug/kg	0.792	0.225	1	A
Beta-BHC	ND		ug/kg	1.90	0.720	1	A
Heptachlor	ND		ug/kg	0.950	0.426	1	A
Aldrin	ND		ug/kg	1.90	0.669	1	A
Heptachlor epoxide	ND		ug/kg	3.56	1.07	1	A
Endrin	ND		ug/kg	0.792	0.324	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.831	1	A
Endrin ketone	ND		ug/kg	1.90	0.489	1	A
Dieldrin	ND		ug/kg	1.19	0.594	1	A
4,4'-DDE	ND		ug/kg	1.90	0.439	1	A
4,4'-DDD	ND		ug/kg	1.90	0.678	1	A
4,4'-DDT	ND		ug/kg	3.56	1.53	1	A
Endosulfan I	ND		ug/kg	1.90	0.449	1	A
Endosulfan II	ND		ug/kg	1.90	0.635	1	A
Endosulfan sulfate	ND		ug/kg	0.792	0.377	1	A
Methoxychlor	ND		ug/kg	3.56	1.11	1	A
Toxaphene	ND		ug/kg	35.6	9.97	1	A
cis-Chlordane	ND		ug/kg	2.37	0.662	1	A
trans-Chlordane	ND		ug/kg	2.37	0.627	1	A
Chlordane	ND		ug/kg	15.4	6.29	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812435**Project Number:** 170505502**Report Date:** 04/19/18**SAMPLE RESULTS**

Lab ID: L1812435-04

Date Collected: 04/10/18 09:40

Client ID: RSB06_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		30-150	B
Decachlorobiphenyl	145		30-150	B
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	104		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04
 Client ID: RSB06_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 09:40
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/13/18 01:08
 Analyst: SL
 Percent Solids: 80%
 Methylation Date: 04/12/18 14:44

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 00:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	208	13.1	1	A
2,4,5-T	ND		ug/kg	208	6.43	1	A
2,4,5-TP (Silvex)	ND		ug/kg	208	5.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	121		30-150	A
DCAA	103		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05
 Client ID: RSB07_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 10:36
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 21:59
 Analyst: KEG
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.351	1	A
Lindane	ND		ug/kg	0.748	0.334	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.680	1	A
Heptachlor	ND		ug/kg	0.897	0.402	1	A
Aldrin	ND		ug/kg	1.79	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.748	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.785	1	A
Endrin ketone	ND		ug/kg	1.79	0.462	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	ND		ug/kg	1.79	0.415	1	A
4,4'-DDD	ND		ug/kg	1.79	0.640	1	A
4,4'-DDT	ND		ug/kg	3.36	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.424	1	A
Endosulfan II	ND		ug/kg	1.79	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.36	1.05	1	A
Toxaphene	ND		ug/kg	33.6	9.42	1	A
cis-Chlordane	ND		ug/kg	2.24	0.625	1	A
trans-Chlordane	ND		ug/kg	2.24	0.592	1	A
Chlordane	ND		ug/kg	14.6	5.94	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05
 Client ID: RSB07_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 10:36
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	B
Decachlorobiphenyl	138		30-150	B
2,4,5,6-Tetrachloro-m-xylene	108		30-150	A
Decachlorobiphenyl	108		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05
 Client ID: RSB07_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 10:36
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 06:23
 Analyst: SL
 Percent Solids: 85%
 Methylation Date: 04/13/18 16:58

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.00	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	133		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06
 Client ID: RSB07_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 10:29
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/17/18 16:26
 Analyst: KEG
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.95	0.382	1	A
Lindane	ND		ug/kg	0.812	0.363	1	A
Alpha-BHC	ND		ug/kg	0.812	0.230	1	A
Beta-BHC	ND		ug/kg	1.95	0.739	1	A
Heptachlor	ND		ug/kg	0.974	0.437	1	A
Aldrin	ND		ug/kg	1.95	0.686	1	A
Heptachlor epoxide	ND		ug/kg	3.65	1.10	1	A
Endrin	ND		ug/kg	0.812	0.333	1	A
Endrin aldehyde	ND		ug/kg	2.44	0.852	1	A
Endrin ketone	ND		ug/kg	1.95	0.502	1	A
Dieldrin	ND		ug/kg	1.22	0.609	1	A
4,4'-DDE	ND		ug/kg	1.95	0.450	1	A
4,4'-DDD	ND		ug/kg	1.95	0.695	1	A
4,4'-DDT	ND		ug/kg	3.65	1.57	1	A
Endosulfan I	ND		ug/kg	1.95	0.460	1	A
Endosulfan II	ND		ug/kg	1.95	0.651	1	A
Endosulfan sulfate	ND		ug/kg	0.812	0.386	1	A
Methoxychlor	ND		ug/kg	3.65	1.14	1	A
Toxaphene	ND		ug/kg	36.5	10.2	1	A
cis-Chlordane	ND		ug/kg	2.44	0.679	1	A
trans-Chlordane	ND		ug/kg	2.44	0.643	1	A
Chlordane	ND		ug/kg	15.8	6.45	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06
 Client ID: RSB07_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 10:29
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
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Organochlorine Pesticides by GC - Westborough Lab							
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Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	153	Q	30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06
 Client ID: RSB07_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 10:29
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/13/18 18:28
 Analyst: SL
 Percent Solids: 81%
 Methylation Date: 04/13/18 11:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	201	12.6	1	A
2,4,5-T	ND		ug/kg	201	6.22	1	A
2,4,5-TP (Silvex)	ND		ug/kg	201	5.34	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	134		30-150	A
DCAA	107		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07
 Client ID: RSB08_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 12:08
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 22:25
 Analyst: KEG
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.392	1	A
Lindane	ND		ug/kg	0.834	0.373	1	A
Alpha-BHC	ND		ug/kg	0.834	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.759	1	A
Heptachlor	ND		ug/kg	1.00	0.448	1	A
Aldrin	ND		ug/kg	2.00	0.704	1	A
Heptachlor epoxide	ND		ug/kg	3.75	1.12	1	A
Endrin	ND		ug/kg	0.834	0.342	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.875	1	A
Endrin ketone	ND		ug/kg	2.00	0.515	1	A
Dieldrin	ND		ug/kg	1.25	0.625	1	A
4,4'-DDE	ND		ug/kg	2.00	0.463	1	A
4,4'-DDD	ND		ug/kg	2.00	0.714	1	A
4,4'-DDT	ND		ug/kg	3.75	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.473	1	A
Endosulfan II	ND		ug/kg	2.00	0.669	1	A
Endosulfan sulfate	ND		ug/kg	0.834	0.397	1	A
Methoxychlor	ND		ug/kg	3.75	1.17	1	A
Toxaphene	ND		ug/kg	37.5	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.697	1	A
trans-Chlordane	ND		ug/kg	2.50	0.660	1	A
Chlordane	ND		ug/kg	16.2	6.63	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812435**Project Number:** 170505502**Report Date:** 04/19/18**SAMPLE RESULTS**

Lab ID: L1812435-07

Date Collected: 04/10/18 12:08

Client ID: RSB08_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	126		30-150	B
2,4,5,6-Tetrachloro-m-xylene	108		30-150	A
Decachlorobiphenyl	98		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07
 Client ID: RSB08_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 12:08
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 06:42
 Analyst: SL
 Percent Solids: 78%
 Methylation Date: 04/13/18 17:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	209	13.2	1	A
2,4,5-T	ND		ug/kg	209	6.49	1	A
2,4,5-TP (Silvex)	ND		ug/kg	209	5.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	98		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08
 Client ID: RSB08_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 12:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 22:38
 Analyst: KEG
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.364	1	A
Lindane	ND		ug/kg	0.775	0.346	1	A
Alpha-BHC	ND		ug/kg	0.775	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.705	1	A
Heptachlor	ND		ug/kg	0.930	0.417	1	A
Aldrin	ND		ug/kg	1.86	0.654	1	A
Heptachlor epoxide	ND		ug/kg	3.48	1.04	1	A
Endrin	ND		ug/kg	0.775	0.318	1	A
Endrin aldehyde	ND		ug/kg	2.32	0.813	1	A
Endrin ketone	ND		ug/kg	1.86	0.479	1	A
Dieldrin	ND		ug/kg	1.16	0.581	1	A
4,4'-DDE	ND		ug/kg	1.86	0.430	1	A
4,4'-DDD	ND		ug/kg	1.86	0.663	1	A
4,4'-DDT	ND		ug/kg	3.48	1.50	1	A
Endosulfan I	ND		ug/kg	1.86	0.439	1	A
Endosulfan II	ND		ug/kg	1.86	0.621	1	A
Endosulfan sulfate	ND		ug/kg	0.775	0.369	1	A
Methoxychlor	ND		ug/kg	3.48	1.08	1	A
Toxaphene	ND		ug/kg	34.8	9.76	1	A
cis-Chlordane	ND		ug/kg	2.32	0.648	1	A
trans-Chlordane	ND		ug/kg	2.32	0.614	1	A
Chlordane	ND		ug/kg	15.1	6.16	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812435**Project Number:** 170505502**Report Date:** 04/19/18**SAMPLE RESULTS**

Lab ID: L1812435-08

Date Collected: 04/10/18 12:23

Client ID: RSB08_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	208	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	99		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08
 Client ID: RSB08_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 12:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/13/18 18:47
 Analyst: SL
 Percent Solids: 84%
 Methylation Date: 04/13/18 11:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.00	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	92		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09
 Client ID: RSB08_14-15
 Sample Location: NY, NY

Date Collected: 04/10/18 12:15
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/17/18 16:39
 Analyst: KEG
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.27	0.444	1	A
Lindane	ND		ug/kg	0.946	0.423	1	A
Alpha-BHC	ND		ug/kg	0.946	0.268	1	A
Beta-BHC	ND		ug/kg	2.27	0.860	1	A
Heptachlor	ND		ug/kg	1.13	0.509	1	A
Aldrin	ND		ug/kg	2.27	0.799	1	A
Heptachlor epoxide	ND		ug/kg	4.25	1.28	1	A
Endrin	ND		ug/kg	0.946	0.388	1	A
Endrin aldehyde	ND		ug/kg	2.84	0.993	1	A
Endrin ketone	ND		ug/kg	2.27	0.584	1	A
Dieldrin	ND		ug/kg	1.42	0.709	1	A
4,4'-DDE	ND		ug/kg	2.27	0.525	1	A
4,4'-DDD	ND		ug/kg	2.27	0.809	1	A
4,4'-DDT	ND		ug/kg	4.25	1.82	1	A
Endosulfan I	ND		ug/kg	2.27	0.536	1	A
Endosulfan II	ND		ug/kg	2.27	0.758	1	A
Endosulfan sulfate	ND		ug/kg	0.946	0.450	1	A
Methoxychlor	ND		ug/kg	4.25	1.32	1	A
Toxaphene	ND		ug/kg	42.5	11.9	1	A
cis-Chlordane	ND		ug/kg	2.84	0.790	1	A
trans-Chlordane	ND		ug/kg	2.84	0.749	1	A
Chlordane	ND		ug/kg	18.4	7.52	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09
 Client ID: RSB08_14-15
 Sample Location: NY, NY

Date Collected: 04/10/18 12:15
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	101		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09
 Client ID: RSB08_14-15
 Sample Location: NY, NY

Date Collected: 04/10/18 12:15
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 07:01
 Analyst: SL
 Percent Solids: 68%
 Methylation Date: 04/13/18 17:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	243	15.3	1	A
2,4,5-T	ND		ug/kg	243	7.53	1	A
2,4,5-TP (Silvex)	ND		ug/kg	243	6.46	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	90		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10
 Client ID: RSB13_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 11:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/13/18 00:32
 Analyst: KEG
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.691	0.309	1	A
Alpha-BHC	ND		ug/kg	0.691	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.629	1	A
Heptachlor	ND		ug/kg	0.829	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.933	1	A
Endrin	ND		ug/kg	0.691	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.725	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND		ug/kg	1.04	0.518	1	A
4,4'-DDE	ND		ug/kg	1.66	0.383	1	A
4,4'-DDD	ND		ug/kg	1.66	0.591	1	A
4,4'-DDT	ND		ug/kg	3.11	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.691	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.967	1	A
Toxaphene	ND		ug/kg	31.1	8.70	1	A
cis-Chlordane	ND		ug/kg	2.07	0.578	1	A
trans-Chlordane	ND		ug/kg	2.07	0.547	1	A
Chlordane	ND		ug/kg	13.5	5.49	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10
 Client ID: RSB13_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 11:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	67		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10
 Client ID: RSB13_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 11:23
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 07:20
 Analyst: SL
 Percent Solids: 91%
 Methylation Date: 04/13/18 17:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.3	1	A
2,4,5-T	ND		ug/kg	179	5.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	115		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11
 Client ID: RSB13_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 11:28
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 23:03
 Analyst: KEG
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.737	0.329	1	A
Alpha-BHC	ND		ug/kg	0.737	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.671	1	A
Heptachlor	ND		ug/kg	0.884	0.396	1	A
Aldrin	ND		ug/kg	1.77	0.623	1	A
Heptachlor epoxide	ND		ug/kg	3.32	0.995	1	A
Endrin	ND		ug/kg	0.737	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.774	1	A
Endrin ketone	ND		ug/kg	1.77	0.455	1	A
Dieldrin	ND		ug/kg	1.10	0.553	1	A
4,4'-DDE	ND		ug/kg	1.77	0.409	1	A
4,4'-DDD	ND		ug/kg	1.77	0.631	1	A
4,4'-DDT	ND		ug/kg	3.32	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.418	1	A
Endosulfan II	ND		ug/kg	1.77	0.591	1	A
Endosulfan sulfate	ND		ug/kg	0.737	0.351	1	A
Methoxychlor	ND		ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.29	1	A
cis-Chlordane	ND		ug/kg	2.21	0.616	1	A
trans-Chlordane	ND		ug/kg	2.21	0.584	1	A
Chlordane	ND		ug/kg	14.4	5.86	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11
 Client ID: RSB13_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 11:28
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	134		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	99		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11
 Client ID: RSB13_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 11:28
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 07:39
 Analyst: SL
 Percent Solids: 86%
 Methylation Date: 04/13/18 17:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	192	12.1	1	A
2,4,5-T	ND		ug/kg	192	5.96	1	A
2,4,5-TP (Silvex)	ND		ug/kg	192	5.11	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	104		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12
Client ID: RSB14_1-2
Sample Location: NY, NY

Date Collected: 04/10/18 13:45
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/12/18 23:16
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 04/12/18 05:21
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.701	0.313	1	A
Alpha-BHC	ND		ug/kg	0.701	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.638	1	A
Heptachlor	ND		ug/kg	0.841	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.592	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.946	1	A
Endrin	ND		ug/kg	0.701	0.287	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.736	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	ND		ug/kg	1.05	0.526	1	A
4,4'-DDE	ND		ug/kg	1.68	0.389	1	A
4,4'-DDD	ND		ug/kg	1.68	0.600	1	A
4,4'-DDT	ND		ug/kg	3.15	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	ND		ug/kg	1.68	0.562	1	A
Endosulfan sulfate	ND		ug/kg	0.701	0.334	1	A
Methoxychlor	ND		ug/kg	3.15	0.982	1	A
Toxaphene	ND		ug/kg	31.5	8.83	1	A
cis-Chlordane	ND		ug/kg	2.10	0.586	1	A
trans-Chlordane	ND		ug/kg	2.10	0.555	1	A
Chlordane	ND		ug/kg	13.7	5.57	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812435**Project Number:** 170505502**Report Date:** 04/19/18**SAMPLE RESULTS**

Lab ID: L1812435-12

Date Collected: 04/10/18 13:45

Client ID: RSB14_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	113		30-150	B
Decachlorobiphenyl	137		30-150	B
2,4,5,6-Tetrachloro-m-xylene	116		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12
 Client ID: RSB14_1-2
 Sample Location: NY, NY

Date Collected: 04/10/18 13:45
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 07:57
 Analyst: SL
 Percent Solids: 91%
 Methylation Date: 04/13/18 17:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	181	11.4	1	A
2,4,5-T	ND		ug/kg	181	5.62	1	A
2,4,5-TP (Silvex)	ND		ug/kg	181	4.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	120		30-150	A
DCAA	118		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13
 Client ID: RSB14_10-11
 Sample Location: NY, NY

Date Collected: 04/10/18 13:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 23:29
 Analyst: KEG
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.01	0.394	1	A
Lindane	ND		ug/kg	0.838	0.374	1	A
Alpha-BHC	ND		ug/kg	0.838	0.238	1	A
Beta-BHC	ND		ug/kg	2.01	0.762	1	A
Heptachlor	ND		ug/kg	1.00	0.451	1	A
Aldrin	ND		ug/kg	2.01	0.708	1	A
Heptachlor epoxide	ND		ug/kg	3.77	1.13	1	A
Endrin	ND		ug/kg	0.838	0.344	1	A
Endrin aldehyde	ND		ug/kg	2.51	0.880	1	A
Endrin ketone	ND		ug/kg	2.01	0.518	1	A
Dieldrin	ND		ug/kg	1.26	0.628	1	A
4,4'-DDE	ND		ug/kg	2.01	0.465	1	A
4,4'-DDD	ND		ug/kg	2.01	0.717	1	A
4,4'-DDT	ND		ug/kg	3.77	1.62	1	A
Endosulfan I	ND		ug/kg	2.01	0.475	1	A
Endosulfan II	ND		ug/kg	2.01	0.672	1	A
Endosulfan sulfate	ND		ug/kg	0.838	0.399	1	A
Methoxychlor	ND		ug/kg	3.77	1.17	1	A
Toxaphene	ND		ug/kg	37.7	10.6	1	A
cis-Chlordane	ND		ug/kg	2.51	0.700	1	A
trans-Chlordane	ND		ug/kg	2.51	0.664	1	A
Chlordane	ND		ug/kg	16.3	6.66	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13
 Client ID: RSB14_10-11
 Sample Location: NY, NY

Date Collected: 04/10/18 13:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	161	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	118		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13
 Client ID: RSB14_10-11
 Sample Location: NY, NY

Date Collected: 04/10/18 13:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/13/18 19:06
 Analyst: SL
 Percent Solids: 77%
 Methylation Date: 04/13/18 11:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	212	13.4	1	A
2,4,5-T	ND		ug/kg	212	6.59	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	99		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14
Client ID: RSB14_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 13:39
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/12/18 23:41
Analyst: KEG
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/12/18 05:21
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.799	0.357	1	A
Alpha-BHC	ND		ug/kg	0.799	0.227	1	A
Beta-BHC	ND		ug/kg	1.92	0.727	1	A
Heptachlor	ND		ug/kg	0.959	0.430	1	A
Aldrin	ND		ug/kg	1.92	0.675	1	A
Heptachlor epoxide	ND		ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.799	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.839	1	A
Endrin ketone	ND		ug/kg	1.92	0.494	1	A
Dieldrin	ND		ug/kg	1.20	0.600	1	A
4,4'-DDE	ND		ug/kg	1.92	0.444	1	A
4,4'-DDD	ND		ug/kg	1.92	0.684	1	A
4,4'-DDT	ND		ug/kg	3.60	1.54	1	A
Endosulfan I	ND		ug/kg	1.92	0.453	1	A
Endosulfan II	ND		ug/kg	1.92	0.641	1	A
Endosulfan sulfate	ND		ug/kg	0.799	0.380	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	ND		ug/kg	2.40	0.668	1	A
trans-Chlordane	ND		ug/kg	2.40	0.633	1	A
Chlordane	ND		ug/kg	15.6	6.36	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14
 Client ID: RSB14_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 13:39
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	132		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14
 Client ID: RSB14_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 13:39
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 08:16
 Analyst: SL
 Percent Solids: 83%
 Methylation Date: 04/13/18 17:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	199	12.6	1	A
2,4,5-T	ND		ug/kg	199	6.18	1	A
2,4,5-TP (Silvex)	ND		ug/kg	199	5.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	96		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15
 Client ID: RSB15_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 08:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/12/18 23:54
 Analyst: KEG
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.705	0.315	1	A
Alpha-BHC	ND		ug/kg	0.705	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.641	1	A
Heptachlor	ND		ug/kg	0.846	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.952	1	A
Endrin	ND		ug/kg	0.705	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.740	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	ND		ug/kg	1.06	0.529	1	A
4,4'-DDE	ND		ug/kg	1.69	0.391	1	A
4,4'-DDD	ND		ug/kg	1.69	0.603	1	A
4,4'-DDT	ND		ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	ND		ug/kg	1.69	0.565	1	A
Endosulfan sulfate	ND		ug/kg	0.705	0.336	1	A
Methoxychlor	ND		ug/kg	3.17	0.987	1	A
Toxaphene	ND		ug/kg	31.7	8.88	1	A
cis-Chlordane	ND		ug/kg	2.11	0.589	1	A
trans-Chlordane	ND		ug/kg	2.11	0.558	1	A
Chlordane	ND		ug/kg	13.7	5.60	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15
 Client ID: RSB15_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 08:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	B
Decachlorobiphenyl	144		30-150	B
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	103		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15
 Client ID: RSB15_0-1
 Sample Location: NY, NY

Date Collected: 04/10/18 08:24
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 08:35
 Analyst: SL
 Percent Solids: 93%
 Methylation Date: 04/13/18 17:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.3	1	A
2,4,5-T	ND		ug/kg	179	5.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	104		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16
Client ID: RSB15_11-12
Sample Location: NY, NY

Date Collected: 04/10/18 08:42
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/18/18 16:22
Analyst: KB
Percent Solids: 68%

Extraction Method: EPA 3546
Extraction Date: 04/17/18 16:37
Cleanup Method: EPA 3620B
Cleanup Date: 04/17/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.32	0.454	1	A
Lindane	ND		ug/kg	0.967	0.432	1	A
Alpha-BHC	ND		ug/kg	0.967	0.275	1	A
Beta-BHC	ND		ug/kg	2.32	0.880	1	A
Heptachlor	ND		ug/kg	1.16	0.520	1	A
Aldrin	ND		ug/kg	2.32	0.817	1	A
Heptachlor epoxide	ND		ug/kg	4.35	1.30	1	A
Endrin	ND		ug/kg	0.967	0.396	1	A
Endrin aldehyde	ND		ug/kg	2.90	1.02	1	A
Endrin ketone	ND		ug/kg	2.32	0.598	1	A
Dieldrin	ND		ug/kg	1.45	0.725	1	A
4,4'-DDE	ND		ug/kg	2.32	0.537	1	A
4,4'-DDD	ND		ug/kg	2.32	0.828	1	A
4,4'-DDT	ND		ug/kg	4.35	1.87	1	A
Endosulfan I	ND		ug/kg	2.32	0.548	1	A
Endosulfan II	ND		ug/kg	2.32	0.776	1	A
Endosulfan sulfate	ND		ug/kg	0.967	0.460	1	A
Methoxychlor	ND		ug/kg	4.35	1.35	1	A
Toxaphene	ND		ug/kg	43.5	12.2	1	A
cis-Chlordane	ND		ug/kg	2.90	0.808	1	A
trans-Chlordane	ND		ug/kg	2.90	0.766	1	A
Chlordane	ND		ug/kg	18.9	7.69	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16
 Client ID: RSB15_11-12
 Sample Location: NY, NY

Date Collected: 04/10/18 08:42
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	119		30-150	B
Decachlorobiphenyl	116		30-150	B
2,4,5,6-Tetrachloro-m-xylene	142		30-150	A
Decachlorobiphenyl	114		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16
 Client ID: RSB15_11-12
 Sample Location: NY, NY

Date Collected: 04/10/18 08:42
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/13/18 19:25
 Analyst: SL
 Percent Solids: 68%
 Methylation Date: 04/13/18 11:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	238	15.0	1	A
2,4,5-T	ND		ug/kg	238	7.38	1	A
2,4,5-TP (Silvex)	ND		ug/kg	238	6.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	101		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17
Client ID: RSB15_7-8
Sample Location: NY, NY

Date Collected: 04/10/18 08:34
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/13/18 00:19
Analyst: KEG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 04/12/18 05:21
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.372	1	A
Lindane	ND		ug/kg	0.791	0.354	1	A
Alpha-BHC	ND		ug/kg	0.791	0.225	1	A
Beta-BHC	ND		ug/kg	1.90	0.720	1	A
Heptachlor	ND		ug/kg	0.949	0.426	1	A
Aldrin	ND		ug/kg	1.90	0.668	1	A
Heptachlor epoxide	ND		ug/kg	3.56	1.07	1	A
Endrin	ND		ug/kg	0.791	0.324	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.831	1	A
Endrin ketone	ND		ug/kg	1.90	0.489	1	A
Dieldrin	ND		ug/kg	1.19	0.593	1	A
4,4'-DDE	ND		ug/kg	1.90	0.439	1	A
4,4'-DDD	ND		ug/kg	1.90	0.677	1	A
4,4'-DDT	ND		ug/kg	3.56	1.53	1	A
Endosulfan I	ND		ug/kg	1.90	0.449	1	A
Endosulfan II	ND		ug/kg	1.90	0.634	1	A
Endosulfan sulfate	ND		ug/kg	0.791	0.377	1	A
Methoxychlor	ND		ug/kg	3.56	1.11	1	A
Toxaphene	ND		ug/kg	35.6	9.97	1	A
cis-Chlordane	ND		ug/kg	2.37	0.661	1	A
trans-Chlordane	ND		ug/kg	2.37	0.627	1	A
Chlordane	ND		ug/kg	15.4	6.29	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17
 Client ID: RSB15_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 08:34
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	140		30-150	B
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	102		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17
 Client ID: RSB15_7-8
 Sample Location: NY, NY

Date Collected: 04/10/18 08:34
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/13/18 19:44
 Analyst: SL
 Percent Solids: 80%
 Methylation Date: 04/13/18 11:00

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 18:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	206	13.0	1	A
2,4,5-T	ND		ug/kg	206	6.40	1	A
2,4,5-TP (Silvex)	ND		ug/kg	206	5.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	129		30-150	A
DCAA	110		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
Client ID: RSBFB01_041018
Sample Location: NY, NY

Date Collected: 04/10/18 00:00
Date Received: 04/10/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/13/18 12:49
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/12/18 21:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
Client ID: RSBFB01_041018
Sample Location: NY, NY

Date Collected: 04/10/18 00:00
Date Received: 04/10/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
 Client ID: RSBFB01_041018
 Sample Location: NY, NY

Date Collected: 04/10/18 00:00
 Date Received: 04/10/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 02:00
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 07:28

Methylation Date: 04/13/18 11:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.6	0.530	1	A
2,4,5-T	ND		ug/l	2.13	0.565	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.13	0.573	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	107		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 04/12/18 16:40
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 04/12/18 00:28

Methylation Date: 04/12/18 14:44

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1105731-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	108		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/12/18 23:47
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/12/18 05:21
Cleanup Method: EPA 3620B
Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-15,17 Batch: WG1105777-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.91	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.893	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A
trans-Chlordane	ND		ug/kg	1.91	0.505	A
Chlordane	ND		ug/kg	12.4	5.07	A

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 04/12/18 23:47
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 04/12/18 05:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/12/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-15,17 Batch: WG1105777-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	141		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 04/13/18 21:18
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 07:28

Methylation Date: 04/13/18 11:19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 18 Batch: WG1105806-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	109		30-150	A
DCAA	94		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/13/18 10:53
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 04/12/18 18:29

Methylation Date: 04/13/18 07:11

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 05-17 Batch: WG1106050-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	110		30-150	A
DCAA	91		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/13/18 11:33
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/12/18 21:30

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 18 Batch: WG1106076-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin aldehyde	ND		ug/l	0.040	0.008	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 04/13/18 11:33
 Analyst: KEG

Extraction Method: EPA 3510C
 Extraction Date: 04/12/18 21:30

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 18 Batch: WG1106076-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	139		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	118		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/18/18 19:22
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 04/16/18 22:51
Cleanup Method: EPA 3620B
Cleanup Date: 04/17/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 16 Batch: WG1106994-1						
Lindane	ND		ug/kg	0.634	0.283	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.4	5.04	A
Delta-BHC	0.617	J	ug/kg	1.52	0.298	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/18/18 19:22
 Analyst: KB

Extraction Method: EPA 3546
 Extraction Date: 04/16/18 22:51
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/17/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 16 Batch: WG1106994-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	77		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1105731-2 WG1105731-3									
2,4-D	97		94		30-150	3		30	A
2,4,5-T	92		88		30-150	4		30	A
2,4,5-TP (Silvex)	86		85		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	109		99		30-150	A
DCAA	114		102		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-15,17 Batch: WG1105777-2 WG1105777-3									
Delta-BHC	115		113		30-150	2		30	A
Lindane	105		105		30-150	0		30	A
Alpha-BHC	105		106		30-150	1		30	A
Beta-BHC	96		96		30-150	0		30	A
Heptachlor	77		72		30-150	7		30	A
Aldrin	101		98		30-150	3		30	A
Heptachlor epoxide	105		105		30-150	0		30	A
Endrin	110		107		30-150	3		30	A
Endrin aldehyde	84		81		30-150	4		30	A
Endrin ketone	99		96		30-150	3		30	A
Dieldrin	114		111		30-150	3		30	A
4,4'-DDE	110		108		30-150	2		30	A
4,4'-DDD	112		105		30-150	6		30	A
4,4'-DDT	115		112		30-150	3		30	A
Endosulfan I	99		96		30-150	3		30	A
Endosulfan II	104		102		30-150	2		30	A
Endosulfan sulfate	71		68		30-150	4		30	A
Methoxychlor	119		117		30-150	2		30	A
cis-Chlordane	94		91		30-150	3		30	A
trans-Chlordane	96		94		30-150	2		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-15,17 Batch: WG1105777-2 WG1105777-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		93		30-150	B
Decachlorobiphenyl	146		137		30-150	B
2,4,5,6-Tetrachloro-m-xylene	101		100		30-150	A
Decachlorobiphenyl	109		110		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 18 Batch: WG1105806-2 WG1105806-3									
2,4-D	98		90		30-150	9		25	A
2,4,5-T	100		92		30-150	8		25	A
2,4,5-TP (Silvex)	94		90		30-150	4		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	128		116		30-150	A
DCAA	123		113		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 05-17 Batch: WG1106050-2 WG1106050-3									
2,4-D	85		84		30-150	1		30	A
2,4,5-T	83		83		30-150	0		30	A
2,4,5-TP (Silvex)	84		80		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	102		102		30-150	A
DCAA	97		95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 18 Batch: WG1106076-2 WG1106076-3									
Delta-BHC	115		129		30-150	11		20	A
Lindane	108		121		30-150	11		20	A
Alpha-BHC	111		123		30-150	10		20	A
Beta-BHC	112		123		30-150	9		20	A
Heptachlor	110		125		30-150	13		20	A
Aldrin	111		125		30-150	12		20	A
Heptachlor epoxide	118		133		30-150	12		20	A
Endrin	116		132		30-150	13		20	A
Endrin aldehyde	112		127		30-150	13		20	A
Endrin ketone	126		143		30-150	13		20	A
Dieldrin	119		135		30-150	13		20	A
4,4'-DDE	107		123		30-150	14		20	A
4,4'-DDD	107		127		30-150	17		20	A
4,4'-DDT	111		129		30-150	15		20	A
Endosulfan I	116		131		30-150	12		20	A
Endosulfan II	112		130		30-150	15		20	A
Endosulfan sulfate	124		139		30-150	11		20	A
Methoxychlor	114		133		30-150	15		20	A
cis-Chlordane	110		125		30-150	13		20	A
trans-Chlordane	113		129		30-150	13		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 18 Batch: WG1106076-2 WG1106076-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	98		106		30-150	A
Decachlorobiphenyl	126		146		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		109		30-150	B
Decachlorobiphenyl	106		122		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 16 Batch: WG1106994-2 WG1106994-3									
Delta-BHC	104		107		30-150	3		30	A
Lindane	93		101		30-150	8		30	A
Alpha-BHC	97		106		30-150	9		30	A
Beta-BHC	90		97		30-150	7		30	A
Heptachlor	60		68		30-150	13		30	A
Aldrin	84		92		30-150	9		30	A
Heptachlor epoxide	82		88		30-150	7		30	A
Endrin	91		97		30-150	6		30	A
Endrin aldehyde	74		82		30-150	10		30	A
Endrin ketone	83		92		30-150	10		30	A
Dieldrin	92		101		30-150	9		30	A
4,4'-DDE	91		96		30-150	5		30	A
4,4'-DDD	86		94		30-150	9		30	A
4,4'-DDT	88		95		30-150	8		30	A
Endosulfan I	88		91		30-150	3		30	A
Endosulfan II	86		95		30-150	10		30	A
Endosulfan sulfate	76		85		30-150	11		30	A
Methoxychlor	90		97		30-150	7		30	A
cis-Chlordane	80		85		30-150	6		30	A
trans-Chlordane	84		96		30-150	13		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 16 Batch: WG1106994-2 WG1106994-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		83		30-150	B
Decachlorobiphenyl	93		104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		85		30-150	A
Decachlorobiphenyl	82		85		30-150	A

METALS

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01

Date Collected: 04/10/18 14:24

Client ID: RSB05_0-1

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8120		mg/kg	8.61	2.32	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Antimony, Total	0.594	J	mg/kg	4.31	0.327	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Arsenic, Total	2.44		mg/kg	0.861	0.179	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Barium, Total	43.8		mg/kg	0.861	0.150	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Beryllium, Total	0.413	J	mg/kg	0.431	0.028	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Cadmium, Total	0.086	J	mg/kg	0.861	0.084	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Calcium, Total	7120		mg/kg	8.61	3.01	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Chromium, Total	13.0		mg/kg	0.861	0.083	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Cobalt, Total	7.30		mg/kg	1.72	0.143	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Copper, Total	15.4		mg/kg	0.861	0.222	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Iron, Total	16600		mg/kg	4.31	0.778	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Lead, Total	15.7		mg/kg	4.31	0.231	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Magnesium, Total	3150		mg/kg	8.61	1.33	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Manganese, Total	569		mg/kg	0.861	0.137	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Mercury, Total	ND		mg/kg	0.071	0.015	1	04/12/18 08:00	04/12/18 20:47	EPA 7471B	1,7471B	EA
Nickel, Total	22.0		mg/kg	2.15	0.208	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Potassium, Total	705		mg/kg	215	12.4	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Selenium, Total	ND		mg/kg	1.72	0.222	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.861	0.244	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Sodium, Total	278		mg/kg	172	2.71	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.72	0.271	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Vanadium, Total	15.0		mg/kg	0.861	0.175	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
Zinc, Total	38.6		mg/kg	4.31	0.252	2	04/11/18 19:20	04/12/18 17:51	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13		mg/kg	0.90	0.90	1		04/12/18 17:51	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02

Date Collected: 04/10/18 14:31

Client ID: RSB05_6-7

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7590		mg/kg	10.5	2.83	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	5.24	0.398	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Arsenic, Total	1.22		mg/kg	1.05	0.218	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Barium, Total	26.7		mg/kg	1.05	0.182	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Beryllium, Total	0.294	J	mg/kg	0.524	0.035	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	1.05	0.103	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Calcium, Total	962		mg/kg	10.5	3.67	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Chromium, Total	9.84		mg/kg	1.05	0.101	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Cobalt, Total	6.25		mg/kg	2.10	0.174	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Copper, Total	14.6		mg/kg	1.05	0.270	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Iron, Total	15800		mg/kg	5.24	0.947	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Lead, Total	6.25		mg/kg	5.24	0.281	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Magnesium, Total	3270		mg/kg	10.5	1.61	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Manganese, Total	175		mg/kg	1.05	0.167	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.085	0.018	1	04/12/18 08:00	04/12/18 20:48	EPA 7471B	1,7471B	EA
Nickel, Total	17.7		mg/kg	2.62	0.254	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Potassium, Total	354		mg/kg	262	15.1	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	2.10	0.270	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.05	0.297	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Sodium, Total	553		mg/kg	210	3.30	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.10	0.330	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Vanadium, Total	11.9		mg/kg	1.05	0.213	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
Zinc, Total	41.5		mg/kg	5.24	0.307	2	04/11/18 19:20	04/12/18 18:54	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.8		mg/kg	1.1	1.1	1		04/12/18 18:54	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03

Date Collected: 04/10/18 09:32

Client ID: RSB06_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6310		mg/kg	9.03	2.44	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.52	0.343	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Arsenic, Total	1.25		mg/kg	0.903	0.188	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Barium, Total	39.7		mg/kg	0.903	0.157	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Beryllium, Total	0.262	J	mg/kg	0.452	0.030	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.903	0.089	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Calcium, Total	2620		mg/kg	9.03	3.16	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Chromium, Total	11.9		mg/kg	0.903	0.087	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Cobalt, Total	6.37		mg/kg	1.81	0.150	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Copper, Total	15.0		mg/kg	0.903	0.233	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Iron, Total	12300		mg/kg	4.52	0.816	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Lead, Total	7.29		mg/kg	4.52	0.242	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Magnesium, Total	3210		mg/kg	9.03	1.39	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Manganese, Total	496		mg/kg	0.903	0.144	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Mercury, Total	0.037	J	mg/kg	0.072	0.015	1	04/12/18 08:00	04/12/18 20:50	EPA 7471B	1,7471B	EA
Nickel, Total	12.0		mg/kg	2.26	0.218	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Potassium, Total	754		mg/kg	226	13.0	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.81	0.233	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.903	0.256	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Sodium, Total	109	J	mg/kg	181	2.84	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.81	0.284	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Vanadium, Total	16.3		mg/kg	0.903	0.183	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
Zinc, Total	27.2		mg/kg	4.52	0.265	2	04/11/18 19:20	04/12/18 18:59	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.92	0.92	1		04/12/18 18:59	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04

Date Collected: 04/10/18 09:40

Client ID: RSB06_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6610		mg/kg	9.70	2.62	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.85	0.369	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Arsenic, Total	ND		mg/kg	0.970	0.202	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Barium, Total	15.0		mg/kg	0.970	0.169	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Beryllium, Total	0.223	J	mg/kg	0.485	0.032	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.970	0.095	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Calcium, Total	1740		mg/kg	9.70	3.40	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Chromium, Total	9.38		mg/kg	0.970	0.093	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Cobalt, Total	2.32		mg/kg	1.94	0.161	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Copper, Total	3.07		mg/kg	0.970	0.250	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Iron, Total	6380		mg/kg	4.85	0.876	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Lead, Total	3.70	J	mg/kg	4.85	0.260	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Magnesium, Total	1780		mg/kg	9.70	1.49	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Manganese, Total	53.5		mg/kg	0.970	0.154	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Mercury, Total	0.037	J	mg/kg	0.079	0.017	1	04/12/18 08:00	04/12/18 20:52	EPA 7471B	1,7471B	EA
Nickel, Total	8.42		mg/kg	2.43	0.235	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Potassium, Total	433		mg/kg	243	14.0	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Selenium, Total	0.359	J	mg/kg	1.94	0.250	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.970	0.275	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Sodium, Total	204		mg/kg	194	3.06	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.94	0.306	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Vanadium, Total	5.94		mg/kg	0.970	0.197	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
Zinc, Total	17.6		mg/kg	4.85	0.284	2	04/11/18 19:20	04/12/18 19:03	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.4		mg/kg	1.0	1.0	1		04/12/18 19:03	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05

Date Collected: 04/10/18 10:36

Client ID: RSB07_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6710		mg/kg	9.13	2.46	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.56	0.347	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Arsenic, Total	1.75		mg/kg	0.913	0.190	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Barium, Total	52.6		mg/kg	0.913	0.159	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Beryllium, Total	0.274	J	mg/kg	0.456	0.030	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.913	0.089	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Calcium, Total	2720		mg/kg	9.13	3.19	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Chromium, Total	18.9		mg/kg	0.913	0.088	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Cobalt, Total	6.07		mg/kg	1.82	0.152	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Copper, Total	29.0		mg/kg	0.913	0.235	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Iron, Total	13800		mg/kg	4.56	0.824	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Lead, Total	35.6		mg/kg	4.56	0.244	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Magnesium, Total	2900		mg/kg	9.13	1.40	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Manganese, Total	254		mg/kg	0.913	0.145	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Mercury, Total	0.046	J	mg/kg	0.074	0.016	1	04/12/18 08:00	04/12/18 20:54	EPA 7471B	1,7471B	EA
Nickel, Total	13.1		mg/kg	2.28	0.221	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Potassium, Total	1710		mg/kg	228	13.1	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.82	0.235	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.913	0.258	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Sodium, Total	147	J	mg/kg	182	2.87	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.82	0.287	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Vanadium, Total	16.1		mg/kg	0.913	0.185	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
Zinc, Total	32.6		mg/kg	4.56	0.267	2	04/11/18 19:20	04/12/18 19:08	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	19		mg/kg	0.94	0.94	1		04/12/18 19:08	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06

Date Collected: 04/10/18 10:29

Client ID: RSB07_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9120		mg/kg	9.51	2.57	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Antimony, Total	0.504	J	mg/kg	4.76	0.361	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Arsenic, Total	3.32		mg/kg	0.951	0.198	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Barium, Total	54.6		mg/kg	0.951	0.166	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Beryllium, Total	0.428	J	mg/kg	0.476	0.031	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.951	0.093	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Calcium, Total	10600		mg/kg	9.51	3.33	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Chromium, Total	13.8		mg/kg	0.951	0.091	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Cobalt, Total	7.20		mg/kg	1.90	0.158	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Copper, Total	17.2		mg/kg	0.951	0.245	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Iron, Total	12900		mg/kg	4.76	0.859	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Lead, Total	52.1		mg/kg	4.76	0.255	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Magnesium, Total	7800		mg/kg	9.51	1.46	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Manganese, Total	109		mg/kg	0.951	0.151	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Mercury, Total	0.290		mg/kg	0.077	0.016	1	04/12/18 08:00	04/12/18 20:56	EPA 7471B	1,7471B	EA
Nickel, Total	14.4		mg/kg	2.38	0.230	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Potassium, Total	419		mg/kg	238	13.7	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.90	0.245	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.951	0.269	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Sodium, Total	318		mg/kg	190	3.00	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.90	0.300	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Vanadium, Total	17.7		mg/kg	0.951	0.193	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
Zinc, Total	38.3		mg/kg	4.76	0.279	2	04/11/18 19:20	04/12/18 19:12	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14		mg/kg	0.98	0.98	1		04/12/18 19:12	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07

Date Collected: 04/10/18 12:08

Client ID: RSB08_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9100		mg/kg	9.87	2.66	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Antimony, Total	0.652	J	mg/kg	4.94	0.375	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Arsenic, Total	1.18		mg/kg	0.987	0.205	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Barium, Total	74.0		mg/kg	0.987	0.172	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Beryllium, Total	0.385	J	mg/kg	0.494	0.033	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.987	0.097	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Calcium, Total	6120		mg/kg	9.87	3.46	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Chromium, Total	15.1		mg/kg	0.987	0.095	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Cobalt, Total	11.2		mg/kg	1.97	0.164	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Copper, Total	46.2		mg/kg	0.987	0.255	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Iron, Total	16200		mg/kg	4.94	0.891	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Lead, Total	21.3		mg/kg	4.94	0.264	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Magnesium, Total	4190		mg/kg	9.87	1.52	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Manganese, Total	130		mg/kg	0.987	0.157	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Mercury, Total	0.054	J	mg/kg	0.080	0.017	1	04/12/18 08:00	04/12/18 20:58	EPA 7471B	1,7471B	EA
Nickel, Total	20.6		mg/kg	2.47	0.239	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Potassium, Total	3680		mg/kg	247	14.2	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.97	0.255	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.987	0.279	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Sodium, Total	144	J	mg/kg	197	3.11	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.97	0.311	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Vanadium, Total	20.1		mg/kg	0.987	0.200	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
Zinc, Total	33.5		mg/kg	4.94	0.289	2	04/11/18 19:20	04/12/18 19:17	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	15		mg/kg	1.0	1.0	1		04/12/18 19:17	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08

Date Collected: 04/10/18 12:23

Client ID: RSB08_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11200		mg/kg	9.50	2.56	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Antimony, Total	0.484	J	mg/kg	4.75	0.361	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Arsenic, Total	1.33		mg/kg	0.950	0.198	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Barium, Total	98.0		mg/kg	0.950	0.165	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Beryllium, Total	0.304	J	mg/kg	0.475	0.031	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.950	0.093	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Calcium, Total	1370		mg/kg	9.50	3.32	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Chromium, Total	18.6		mg/kg	0.950	0.091	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Cobalt, Total	17.2		mg/kg	1.90	0.158	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Copper, Total	33.5		mg/kg	0.950	0.245	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Iron, Total	24200		mg/kg	4.75	0.858	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Lead, Total	22.0		mg/kg	4.75	0.254	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Magnesium, Total	6510		mg/kg	9.50	1.46	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Manganese, Total	164		mg/kg	0.950	0.151	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Mercury, Total	0.050	J	mg/kg	0.075	0.016	1	04/12/18 08:00	04/12/18 20:59	EPA 7471B	1,7471B	EA
Nickel, Total	29.9		mg/kg	2.37	0.230	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Potassium, Total	6420		mg/kg	237	13.7	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.90	0.245	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.950	0.269	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Sodium, Total	280		mg/kg	190	2.99	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.90	0.299	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Vanadium, Total	27.6		mg/kg	0.950	0.193	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
Zinc, Total	53.5		mg/kg	4.75	0.278	2	04/11/18 19:20	04/12/18 19:22	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	19		mg/kg	0.95	0.95	1		04/12/18 19:22	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09

Date Collected: 04/10/18 12:15

Client ID: RSB08_14-15

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5620		mg/kg	11.6	3.13	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Antimony, Total	0.546	J	mg/kg	5.80	0.441	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Arsenic, Total	1.89		mg/kg	1.16	0.241	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Barium, Total	13.2		mg/kg	1.16	0.202	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Beryllium, Total	0.244	J	mg/kg	0.580	0.038	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	1.16	0.114	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Calcium, Total	1210		mg/kg	11.6	4.06	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Chromium, Total	12.9		mg/kg	1.16	0.111	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Cobalt, Total	5.47		mg/kg	2.32	0.193	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Copper, Total	13.5		mg/kg	1.16	0.299	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Iron, Total	12600		mg/kg	5.80	1.05	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Lead, Total	6.07		mg/kg	5.80	0.311	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Magnesium, Total	3250		mg/kg	11.6	1.79	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Manganese, Total	94.4		mg/kg	1.16	0.184	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.093	0.020	1	04/12/18 08:00	04/12/18 21:05	EPA 7471B	1,7471B	EA
Nickel, Total	13.8		mg/kg	2.90	0.281	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Potassium, Total	346		mg/kg	290	16.7	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	2.32	0.299	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.16	0.328	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Sodium, Total	216	J	mg/kg	232	3.66	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.32	0.366	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Vanadium, Total	13.3		mg/kg	1.16	0.236	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
Zinc, Total	38.2		mg/kg	5.80	0.340	2	04/11/18 19:20	04/12/18 20:46	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13		mg/kg	1.2	1.2	1		04/12/18 20:46	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10

Date Collected: 04/10/18 11:23

Client ID: RSB13_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6700		mg/kg	8.73	2.36	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Antimony, Total	0.593	J	mg/kg	4.36	0.332	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Arsenic, Total	1.87		mg/kg	0.873	0.182	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Barium, Total	20.6		mg/kg	0.873	0.152	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Beryllium, Total	0.244	J	mg/kg	0.436	0.029	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Cadmium, Total	0.113	J	mg/kg	0.873	0.086	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Calcium, Total	3300		mg/kg	8.73	3.05	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Chromium, Total	10.4		mg/kg	0.873	0.084	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Cobalt, Total	5.54		mg/kg	1.74	0.145	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Copper, Total	13.1		mg/kg	0.873	0.225	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Iron, Total	12800		mg/kg	4.36	0.788	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Lead, Total	13.0		mg/kg	4.36	0.234	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Magnesium, Total	3660		mg/kg	8.73	1.34	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Manganese, Total	187		mg/kg	0.873	0.139	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Mercury, Total	0.015	J	mg/kg	0.069	0.015	1	04/12/18 08:00	04/12/18 21:07	EPA 7471B	1,7471B	EA
Nickel, Total	12.6		mg/kg	2.18	0.211	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Potassium, Total	444		mg/kg	218	12.6	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.74	0.225	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.873	0.247	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Sodium, Total	94.9	J	mg/kg	174	2.75	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.74	0.275	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Vanadium, Total	11.4		mg/kg	0.873	0.177	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
Zinc, Total	65.7		mg/kg	4.36	0.256	2	04/11/18 19:20	04/12/18 20:51	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.88	0.88	1		04/12/18 20:51	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11

Date Collected: 04/10/18 11:28

Client ID: RSB13_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6740		mg/kg	9.34	2.52	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Antimony, Total	0.402	J	mg/kg	4.67	0.355	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Arsenic, Total	1.86		mg/kg	0.934	0.194	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Barium, Total	25.8		mg/kg	0.934	0.162	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Beryllium, Total	0.289	J	mg/kg	0.467	0.031	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.934	0.092	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Calcium, Total	808		mg/kg	9.34	3.27	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Chromium, Total	10.8		mg/kg	0.934	0.090	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Cobalt, Total	4.07		mg/kg	1.87	0.155	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Copper, Total	7.97		mg/kg	0.934	0.241	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Iron, Total	11800		mg/kg	4.67	0.843	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Lead, Total	7.96		mg/kg	4.67	0.250	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Magnesium, Total	1700		mg/kg	9.34	1.44	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Manganese, Total	84.9		mg/kg	0.934	0.148	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Mercury, Total	0.030	J	mg/kg	0.073	0.015	1	04/12/18 08:00	04/12/18 21:09	EPA 7471B	1,7471B	EA
Nickel, Total	8.82		mg/kg	2.33	0.226	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Potassium, Total	379		mg/kg	233	13.4	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.87	0.241	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.934	0.264	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Sodium, Total	130	J	mg/kg	187	2.94	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.87	0.294	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Vanadium, Total	13.0		mg/kg	0.934	0.190	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
Zinc, Total	21.5		mg/kg	4.67	0.274	2	04/11/18 19:20	04/12/18 20:56	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11		mg/kg	0.93	0.93	1		04/12/18 20:56	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12

Date Collected: 04/10/18 13:45

Client ID: RSB14_1-2

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7730		mg/kg	8.51	2.30	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.25	0.323	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Arsenic, Total	1.55		mg/kg	0.851	0.177	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Barium, Total	25.1		mg/kg	0.851	0.148	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Beryllium, Total	0.238	J	mg/kg	0.425	0.028	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.851	0.083	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Calcium, Total	1190		mg/kg	8.51	2.98	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Chromium, Total	18.0		mg/kg	0.851	0.082	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Cobalt, Total	2.65		mg/kg	1.70	0.141	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Copper, Total	4.98		mg/kg	0.851	0.219	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Iron, Total	10100		mg/kg	4.25	0.768	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Lead, Total	5.56		mg/kg	4.25	0.228	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Magnesium, Total	1020		mg/kg	8.51	1.31	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Manganese, Total	48.1		mg/kg	0.851	0.135	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Mercury, Total	0.041	J	mg/kg	0.069	0.015	1	04/12/18 08:00	04/12/18 21:11	EPA 7471B	1,7471B	EA
Nickel, Total	8.40		mg/kg	2.13	0.206	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Potassium, Total	347		mg/kg	213	12.2	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Selenium, Total	0.306	J	mg/kg	1.70	0.219	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.851	0.241	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Sodium, Total	174		mg/kg	170	2.68	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.70	0.268	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Vanadium, Total	12.8		mg/kg	0.851	0.173	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
Zinc, Total	12.4		mg/kg	4.25	0.249	2	04/11/18 19:20	04/12/18 21:00	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	18		mg/kg	0.88	0.88	1		04/12/18 21:00	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13
 Client ID: RSB14_10-11
 Sample Location: NY, NY

Date Collected: 04/10/18 13:31
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6480		mg/kg	10.3	2.78	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	5.15	0.391	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Arsenic, Total	1.58		mg/kg	1.03	0.214	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Barium, Total	15.0		mg/kg	1.03	0.179	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Beryllium, Total	0.196	J	mg/kg	0.515	0.034	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	1.03	0.101	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Calcium, Total	1100		mg/kg	10.3	3.60	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Chromium, Total	14.5		mg/kg	1.03	0.099	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Cobalt, Total	5.62		mg/kg	2.06	0.171	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Copper, Total	17.8		mg/kg	1.03	0.266	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Iron, Total	11800		mg/kg	5.15	0.930	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Lead, Total	6.80		mg/kg	5.15	0.276	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Magnesium, Total	2850		mg/kg	10.3	1.58	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Manganese, Total	101		mg/kg	1.03	0.164	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.083	0.017	1	04/12/18 08:00	04/12/18 21:12	EPA 7471B	1,7471B	EA
Nickel, Total	12.2		mg/kg	2.57	0.249	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Potassium, Total	366		mg/kg	257	14.8	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	2.06	0.266	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.03	0.291	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Sodium, Total	290		mg/kg	206	3.24	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.06	0.324	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Vanadium, Total	12.8		mg/kg	1.03	0.209	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
Zinc, Total	43.4		mg/kg	5.15	0.302	2	04/11/18 19:20	04/12/18 21:05	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14		mg/kg	1.0	1.0	1		04/12/18 21:05	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14

Date Collected: 04/10/18 13:39

Client ID: RSB14_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3990		mg/kg	9.15	2.47	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Antimony, Total	0.485	J	mg/kg	4.58	0.348	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Arsenic, Total	1.16		mg/kg	0.915	0.190	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Barium, Total	11.0		mg/kg	0.915	0.159	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Beryllium, Total	0.119	J	mg/kg	0.458	0.030	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.915	0.090	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Calcium, Total	309		mg/kg	9.15	3.20	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Chromium, Total	6.88		mg/kg	0.915	0.088	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Cobalt, Total	3.56		mg/kg	1.83	0.152	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Copper, Total	4.18		mg/kg	0.915	0.236	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Iron, Total	8060		mg/kg	4.58	0.826	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Lead, Total	2.84	J	mg/kg	4.58	0.245	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Magnesium, Total	1340		mg/kg	9.15	1.41	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Manganese, Total	66.0		mg/kg	0.915	0.146	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.076	0.016	1	04/12/18 08:00	04/12/18 21:14	EPA 7471B	1,7471B	EA
Nickel, Total	6.08		mg/kg	2.29	0.221	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Potassium, Total	304		mg/kg	229	13.2	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.83	0.236	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.915	0.259	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Sodium, Total	224		mg/kg	183	2.88	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.83	0.288	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Vanadium, Total	7.48		mg/kg	0.915	0.186	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
Zinc, Total	15.4		mg/kg	4.58	0.268	2	04/11/18 19:20	04/12/18 21:10	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.9		mg/kg	0.96	0.97	1		04/12/18 21:10	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15

Date Collected: 04/10/18 08:24

Client ID: RSB15_0-1

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4000		mg/kg	8.29	2.24	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.14	0.315	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Arsenic, Total	0.895		mg/kg	0.829	0.172	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Barium, Total	17.9		mg/kg	0.829	0.144	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Beryllium, Total	0.166	J	mg/kg	0.414	0.027	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.829	0.081	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Calcium, Total	1390		mg/kg	8.29	2.90	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Chromium, Total	6.11		mg/kg	0.829	0.080	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Cobalt, Total	1.75		mg/kg	1.66	0.138	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Copper, Total	3.16		mg/kg	0.829	0.214	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Iron, Total	6370		mg/kg	4.14	0.748	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Lead, Total	4.33		mg/kg	4.14	0.222	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Magnesium, Total	1020		mg/kg	8.29	1.28	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Manganese, Total	57.5		mg/kg	0.829	0.132	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Mercury, Total	0.018	J	mg/kg	0.068	0.014	1	04/12/18 08:00	04/12/18 21:16	EPA 7471B	1,7471B	EA
Nickel, Total	4.77		mg/kg	2.07	0.200	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Potassium, Total	308		mg/kg	207	11.9	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.66	0.214	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.829	0.234	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Sodium, Total	114	J	mg/kg	166	2.61	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.66	0.261	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Vanadium, Total	7.18		mg/kg	0.829	0.168	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
Zinc, Total	10.5		mg/kg	4.14	0.243	2	04/11/18 19:20	04/12/18 21:14	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.9	J	mg/kg	0.86	0.86	1		04/12/18 21:14	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16
 Client ID: RSB15_11-12
 Sample Location: NY, NY

Date Collected: 04/10/18 08:42
 Date Received: 04/10/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6020		mg/kg	11.3	3.06	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Antimony, Total	0.533	J	mg/kg	5.67	0.431	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Arsenic, Total	1.59		mg/kg	1.13	0.236	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Barium, Total	11.0		mg/kg	1.13	0.197	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Beryllium, Total	0.250	J	mg/kg	0.567	0.037	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	1.13	0.111	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Calcium, Total	1220		mg/kg	11.3	3.97	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Chromium, Total	10.4		mg/kg	1.13	0.109	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Cobalt, Total	6.23		mg/kg	2.27	0.188	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Copper, Total	13.4		mg/kg	1.13	0.293	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Iron, Total	13300		mg/kg	5.67	1.02	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Lead, Total	5.64	J	mg/kg	5.67	0.304	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Magnesium, Total	3260		mg/kg	11.3	1.75	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Manganese, Total	88.9		mg/kg	1.13	0.180	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.093	0.020	1	04/12/18 08:00	04/12/18 21:18	EPA 7471B	1,7471B	EA
Nickel, Total	14.0		mg/kg	2.84	0.275	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Potassium, Total	414		mg/kg	284	16.3	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	2.27	0.293	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.13	0.321	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Sodium, Total	425		mg/kg	227	3.57	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.27	0.357	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Vanadium, Total	11.8		mg/kg	1.13	0.230	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
Zinc, Total	38.2		mg/kg	5.67	0.332	2	04/11/18 19:20	04/12/18 21:19	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	1.2	1.2	1		04/12/18 21:19	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17

Date Collected: 04/10/18 08:34

Client ID: RSB15_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4750		mg/kg	9.73	2.63	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.87	0.370	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Arsenic, Total	1.10		mg/kg	0.973	0.202	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Barium, Total	64.4		mg/kg	0.973	0.169	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Beryllium, Total	0.224	J	mg/kg	0.487	0.032	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Cadmium, Total	0.282	J	mg/kg	0.973	0.095	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Calcium, Total	388		mg/kg	9.73	3.41	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Chromium, Total	7.87		mg/kg	0.973	0.093	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Cobalt, Total	2.09		mg/kg	1.95	0.162	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Copper, Total	8.00		mg/kg	0.973	0.251	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Iron, Total	8120		mg/kg	4.87	0.879	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Lead, Total	2.96	J	mg/kg	4.87	0.261	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Magnesium, Total	811		mg/kg	9.73	1.50	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Manganese, Total	2080		mg/kg	0.973	0.155	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.079	0.017	1	04/12/18 08:00	04/12/18 21:20	EPA 7471B	1,7471B	EA
Nickel, Total	24.0		mg/kg	2.43	0.236	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Potassium, Total	263		mg/kg	243	14.0	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.95	0.251	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.973	0.275	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Sodium, Total	166	J	mg/kg	195	3.06	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Thallium, Total	2.11		mg/kg	1.95	0.306	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Vanadium, Total	6.76		mg/kg	0.973	0.198	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
Zinc, Total	17.6		mg/kg	4.87	0.285	2	04/11/18 19:20	04/12/18 21:24	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.9		mg/kg	1.0	1.0	1		04/12/18 21:24	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18
 Client ID: RSBFB01_041018
 Sample Location: NY, NY

Date Collected: 04/10/18 00:00
 Date Received: 04/10/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.032	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Antimony, Total	0.014	J	mg/l	0.050	0.007	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Arsenic, Total	ND		mg/l	0.005	0.002	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Barium, Total	ND		mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Beryllium, Total	ND		mg/l	0.005	0.001	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Cadmium, Total	ND		mg/l	0.005	0.001	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Calcium, Total	0.038	J	mg/l	0.100	0.035	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Chromium, Total	ND		mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Cobalt, Total	ND		mg/l	0.020	0.002	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Copper, Total	ND		mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Iron, Total	0.011	J	mg/l	0.050	0.009	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Lead, Total	ND		mg/l	0.010	0.003	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Magnesium, Total	ND		mg/l	0.100	0.015	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Manganese, Total	ND		mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/12/18 11:04	04/12/18 21:28	EPA 7470A	1,7470A	EA
Nickel, Total	ND		mg/l	0.025	0.002	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Potassium, Total	ND		mg/l	2.50	0.237	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Selenium, Total	ND		mg/l	0.010	0.004	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Silver, Total	ND		mg/l	0.007	0.003	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Sodium, Total	0.294	J	mg/l	2.00	0.120	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Thallium, Total	ND		mg/l	0.020	0.003	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Vanadium, Total	ND		mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
Zinc, Total	ND		mg/l	0.050	0.002	1	04/13/18 07:20	04/13/18 13:14	EPA 3005A	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		04/13/18 13:14	NA	107,-	



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-17 Batch: WG1105674-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Iron, Total	0.364	J	mg/kg	2.00	0.361	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Potassium, Total	ND		mg/kg	100	5.76	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/11/18 19:20	04/12/18 17:37	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-17 Batch: WG1105758-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	04/12/18 08:00	04/12/18 20:28	1,7471B	EA



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 18 Batch: WG1105891-1									
Mercury, Total	ND	mg/l	0.00020	0.00006	1	04/12/18 11:04	04/12/18 21:05	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 18 Batch: WG1106163-1									
Aluminum, Total	ND	mg/l	0.100	0.032	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Antimony, Total	ND	mg/l	0.050	0.007	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Arsenic, Total	ND	mg/l	0.005	0.002	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Barium, Total	ND	mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Beryllium, Total	ND	mg/l	0.005	0.001	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Cadmium, Total	ND	mg/l	0.005	0.001	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Calcium, Total	ND	mg/l	0.100	0.035	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Chromium, Total	ND	mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Cobalt, Total	ND	mg/l	0.020	0.002	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Copper, Total	ND	mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Iron, Total	ND	mg/l	0.050	0.009	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Lead, Total	ND	mg/l	0.010	0.003	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Magnesium, Total	ND	mg/l	0.100	0.015	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Manganese, Total	ND	mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Nickel, Total	ND	mg/l	0.025	0.002	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Potassium, Total	ND	mg/l	2.50	0.237	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Selenium, Total	ND	mg/l	0.010	0.004	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Silver, Total	ND	mg/l	0.007	0.003	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Sodium, Total	ND	mg/l	2.00	0.120	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Thallium, Total	ND	mg/l	0.020	0.003	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
Vanadium, Total	ND	mg/l	0.010	0.002	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis Batch Quality Control

Zinc, Total	ND	mg/l	0.050	0.002	1	04/13/18 07:20	04/13/18 12:54	1,6010C	LC
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Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-17 Batch: WG1105674-2 SRM Lot Number: D098-540								
Aluminum, Total	68		-		47-153	-		
Antimony, Total	156		-		6-194	-		
Arsenic, Total	111		-		83-117	-		
Barium, Total	98		-		82-118	-		
Beryllium, Total	106		-		83-117	-		
Cadmium, Total	105		-		82-117	-		
Calcium, Total	99		-		81-118	-		
Chromium, Total	100		-		83-119	-		
Cobalt, Total	106		-		84-116	-		
Copper, Total	104		-		84-116	-		
Iron, Total	91		-		60-140	-		
Lead, Total	104		-		82-117	-		
Magnesium, Total	90		-		76-124	-		
Manganese, Total	99		-		82-118	-		
Nickel, Total	106		-		82-117	-		
Potassium, Total	86		-		69-131	-		
Selenium, Total	111		-		78-121	-		
Silver, Total	109		-		80-120	-		
Sodium, Total	99		-		74-126	-		
Thallium, Total	105		-		80-119	-		
Vanadium, Total	98		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 Batch: WG1105674-2 SRM Lot Number: D098-540					
Zinc, Total	103	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01-17 Batch: WG1105758-2 SRM Lot Number: D098-540					
Mercury, Total	103	-	50-149	-	
Total Metals - Mansfield Lab Associated sample(s): 18 Batch: WG1105891-2					
Mercury, Total	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 Batch: WG1106163-2					
Aluminum, Total	105	-	80-120	-	
Antimony, Total	97	-	80-120	-	
Arsenic, Total	109	-	80-120	-	
Barium, Total	100	-	80-120	-	
Beryllium, Total	103	-	80-120	-	
Cadmium, Total	108	-	80-120	-	
Calcium, Total	103	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	99	-	80-120	-	
Copper, Total	103	-	80-120	-	
Iron, Total	106	-	80-120	-	
Lead, Total	104	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	100	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	98	-	80-120	-	
Selenium, Total	113	-	80-120	-	
Silver, Total	104	-	80-120	-	
Sodium, Total	102	-	80-120	-	
Thallium, Total	107	-	80-120	-	
Vanadium, Total	103	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 Batch: WG1106163-2					
Zinc, Total	105	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1105674-3 QC Sample: L1812435-01 Client ID: RSB05_0-1												
Aluminum, Total	8120	178	8350	129	Q	-	-		75-125	-		20
Antimony, Total	0.594J	44.5	38.2	86		-	-		75-125	-		20
Arsenic, Total	2.44	10.7	12.9	98		-	-		75-125	-		20
Barium, Total	43.8	178	239	110		-	-		75-125	-		20
Beryllium, Total	0.413J	4.45	4.70	106		-	-		75-125	-		20
Cadmium, Total	0.086J	4.54	4.52	100		-	-		75-125	-		20
Calcium, Total	7120	890	11600	503	Q	-	-		75-125	-		20
Chromium, Total	13.0	17.8	29.3	92		-	-		75-125	-		20
Cobalt, Total	7.30	44.5	47.3	90		-	-		75-125	-		20
Copper, Total	15.4	22.2	37.2	98		-	-		75-125	-		20
Iron, Total	16600	89	20800	4720	Q	-	-		75-125	-		20
Lead, Total	15.7	45.4	53.6	83		-	-		75-125	-		20
Magnesium, Total	3150	890	4320	131	Q	-	-		75-125	-		20
Manganese, Total	569.	44.5	741	386	Q	-	-		75-125	-		20
Nickel, Total	22.0	44.5	57.9	81		-	-		75-125	-		20
Potassium, Total	705.	890	1530	93		-	-		75-125	-		20
Selenium, Total	ND	10.7	10.2	95		-	-		75-125	-		20
Silver, Total	ND	26.7	28.0	105		-	-		75-125	-		20
Sodium, Total	278.	890	1140	97		-	-		75-125	-		20
Thallium, Total	ND	10.7	10.2	95		-	-		75-125	-		20
Vanadium, Total	15.0	44.5	58.3	97		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1105674-3 QC Sample: L1812435-01 Client ID: RSB05_0-1									
Zinc, Total	38.6	44.5	77.1	86	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1105758-3 QC Sample: L1812338-01 Client ID: MS Sample									
Mercury, Total	0.063J	0.153	0.247	161	Q	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1105891-3 QC Sample: L1812178-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00465	93	-	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1106163-3 QC Sample: L1812435-18 Client ID: RSBFB01_041018									
Aluminum, Total	ND	2	2.10	105	-	-	75-125	-	20
Antimony, Total	0.014J	0.5	0.525	105	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.132	110	-	-	75-125	-	20
Barium, Total	ND	2	2.02	101	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.052	103	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.055	109	-	-	75-125	-	20
Calcium, Total	0.038J	10	10.4	104	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.209	104	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.502	100	-	-	75-125	-	20
Copper, Total	ND	0.25	0.265	106	-	-	75-125	-	20
Iron, Total	0.011J	1	1.07	107	-	-	75-125	-	20
Lead, Total	ND	0.51	0.536	105	-	-	75-125	-	20
Magnesium, Total	ND	10	10.1	101	-	-	75-125	-	20
Manganese, Total	ND	0.5	0.500	100	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.504	101	-	-	75-125	-	20
Potassium, Total	ND	10	9.84	98	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.138	115	-	-	75-125	-	20
Silver, Total	ND	0.05	0.054	107	-	-	75-125	-	20
Sodium, Total	0.294J	10	10.2	102	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.129	108	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.536	107	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1106163-3 QC Sample: L1812435-18 Client ID: RSBFB01_041018									
Zinc, Total	ND	0.5	0.534	107	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1105674-4 QC Sample: L1812435-01 Client ID: RSB05_0-1						
Aluminum, Total	8120	7300	mg/kg	11		20
Antimony, Total	0.594J	0.434J	mg/kg	NC		20
Arsenic, Total	2.44	2.26	mg/kg	8		20
Barium, Total	43.8	32.8	mg/kg	29	Q	20
Beryllium, Total	0.413J	0.319J	mg/kg	NC		20
Cadmium, Total	0.086J	ND	mg/kg	NC		20
Calcium, Total	7120	12900	mg/kg	58	Q	20
Chromium, Total	13.0	12.0	mg/kg	8		20
Cobalt, Total	7.30	5.62	mg/kg	26	Q	20
Copper, Total	15.4	13.4	mg/kg	14		20
Iron, Total	16600	14700	mg/kg	12		20
Lead, Total	15.7	17.2	mg/kg	9		20
Magnesium, Total	3150	2910	mg/kg	8		20
Manganese, Total	569.	289	mg/kg	65	Q	20
Nickel, Total	22.0	12.5	mg/kg	55	Q	20
Potassium, Total	705.	641	mg/kg	10		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	278.	219	mg/kg	24	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1105674-4 QC Sample: L1812435-01 Client ID: RSB05_0-1					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	15.0	14.9	mg/kg	1	20
Zinc, Total	38.6	33.6	mg/kg	14	20
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1105758-4 QC Sample: L1812338-01 Client ID: DUP Sample					
Mercury, Total	0.063J	0.067J	mg/kg	NC	20
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1105891-4 QC Sample: L1812178-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1106163-4 QC Sample: L1812435-18 Client ID: RSBFB01_041018					
Aluminum, Total	ND	ND	mg/l	NC	20
Antimony, Total	0.014J	0.013J	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Barium, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	0.038J	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Cobalt, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	0.011J	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Magnesium, Total	ND	ND	mg/l	NC	20
Manganese, Total	ND	0.003J	mg/l	NC	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	0.294J	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1106163-4 QC Sample: L1812435-18 Client ID: RSBFB01_041018					
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-01

Client ID: RSB05_0-1

Sample Location: NY, NY

Date Collected: 04/10/18 14:24

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	04/11/18 11:50	04/11/18 14:55	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.896	0.179	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-02

Client ID: RSB05_6-7

Sample Location: NY, NY

Date Collected: 04/10/18 14:31

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.7		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/11/18 11:50	04/11/18 14:56	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.06	0.211	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-03

Client ID: RSB06_1-2

Sample Location: NY, NY

Date Collected: 04/10/18 09:32

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	04/11/18 11:50	04/11/18 15:01	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.920	0.184	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-04

Client ID: RSB06_7-8

Sample Location: NY, NY

Date Collected: 04/10/18 09:40

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	04/11/18 11:50	04/11/18 15:02	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.00	0.200	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-05

Client ID: RSB07_1-2

Sample Location: NY, NY

Date Collected: 04/10/18 10:36

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/11/18 11:50	04/11/18 15:03	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.937	0.187	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-06

Client ID: RSB07_7-8

Sample Location: NY, NY

Date Collected: 04/10/18 10:29

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	04/11/18 14:40	04/12/18 13:23	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.984	0.197	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-07

Client ID: RSB08_1-2

Sample Location: NY, NY

Date Collected: 04/10/18 12:08

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.4		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	04/11/18 14:40	04/12/18 13:24	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.02	0.204	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-08

Client ID: RSB08_7-8

Sample Location: NY, NY

Date Collected: 04/10/18 12:23

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.1		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	04/11/18 14:40	04/12/18 13:40	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.951	0.190	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-09

Client ID: RSB08_14-15

Sample Location: NY, NY

Date Collected: 04/10/18 12:15

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.1		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.4	0.30	1	04/11/18 14:40	04/12/18 13:43	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.17	0.235	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-10

Client ID: RSB13_1-2

Sample Location: NY, NY

Date Collected: 04/10/18 11:23

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

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	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	04/11/18 14:40	04/12/18 13:44	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.881	0.176	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-11

Client ID: RSB13_7-8

Sample Location: NY, NY

Date Collected: 04/10/18 11:28

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	04/11/18 14:40	04/12/18 13:45	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.934	0.187	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-12

Client ID: RSB14_1-2

Sample Location: NY, NY

Date Collected: 04/10/18 13:45

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/11/18 14:40	04/12/18 13:46	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.877	0.175	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-13

Client ID: RSB14_10-11

Sample Location: NY, NY

Date Collected: 04/10/18 13:31

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

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	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/11/18 14:40	04/12/18 13:49	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.04	0.207	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-14

Client ID: RSB14_7-8

Sample Location: NY, NY

Date Collected: 04/10/18 13:39

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.9		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	0.35	J	mg/kg	1.1	0.24	1	04/11/18 14:40	04/12/18 13:52	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.965	0.193	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-15

Client ID: RSB15_0-1

Sample Location: NY, NY

Date Collected: 04/10/18 08:24

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.6		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/11/18 14:40	04/12/18 13:53	1,9010C/9012B	LH
Chromium, Hexavalent	0.184	J	mg/kg	0.864	0.173	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-16

Client ID: RSB15_11-12

Sample Location: NY, NY

Date Collected: 04/10/18 08:42

Date Received: 04/10/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.2		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.4	0.30	1	04/11/18 14:40	04/12/18 13:54	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.17	0.235	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-17

Date Collected: 04/10/18 08:34

Client ID: RSB15_7-8

Date Received: 04/10/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	04/11/18 14:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	04/11/18 14:40	04/12/18 13:55	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.995	0.199	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

SAMPLE RESULTS

Lab ID: L1812435-18

Client ID: RSBFB01_041018

Sample Location: NY, NY

Date Collected: 04/10/18 00:00

Date Received: 04/10/18

Field Prep: Field Filtered
(Dissolved Metals)

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/11/18 13:00	04/12/18 13:15	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/11/18 05:25	04/11/18 06:14	1,7196A	MA



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 18 Batch: WG1105429-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/11/18 05:25	04/11/18 06:09	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1105431-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 11-17 Batch: WG1105433-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/11/18 06:28	04/11/18 14:49	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1105534-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	04/11/18 11:50	04/11/18 14:37	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 06-11 Batch: WG1105573-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	04/11/18 14:40	04/12/18 13:16	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 12-17 Batch: WG1105574-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	04/11/18 14:40	04/12/18 13:17	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 18 Batch: WG1105576-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/11/18 13:00	04/12/18 13:05	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 18 Batch: WG1105429-2								
Chromium, Hexavalent	97		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1105431-2								
Chromium, Hexavalent	97		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-17 Batch: WG1105433-2								
Chromium, Hexavalent	97		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1105534-2 WG1105534-3								
Cyanide, Total	53	Q	37	Q	80-120	35		35
General Chemistry - Westborough Lab Associated sample(s): 06-11 Batch: WG1105573-2 WG1105573-3								
Cyanide, Total	63	Q	77	Q	80-120	25		35
General Chemistry - Westborough Lab Associated sample(s): 12-17 Batch: WG1105574-2 WG1105574-3								
Cyanide, Total	63	Q	77	Q	80-120	25		35
General Chemistry - Westborough Lab Associated sample(s): 18 Batch: WG1105576-2 WG1105576-3								
Cyanide, Total	89		91		85-115	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1105429-4 QC Sample: L1812435-18 Client ID: RSBFB01_041018												
Chromium, Hexavalent	ND	0.1	0.093	93	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1105431-4 QC Sample: L1812435-02 Client ID: RSB05_6-7												
Chromium, Hexavalent	ND	913	1100	120	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 11-17 QC Batch ID: WG1105433-4 QC Sample: L1812435-11 Client ID: RSB13_7-8												
Chromium, Hexavalent	ND	1040	1080	104	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1105534-4 WG1105534-5 QC Sample: L1812435-02 Client ID: RSB05_6-7												
Cyanide, Total	ND	12	11	90	9.3	77	77	77	75-125	17	-	35
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1105573-4 WG1105573-5 QC Sample: L1812435-08 Client ID: RSB08_7-8												
Cyanide, Total	ND	12	11	95	11	94	94	94	75-125	0	-	35
General Chemistry - Westborough Lab Associated sample(s): 12-17 QC Batch ID: WG1105574-4 WG1105574-5 QC Sample: L1812435-12 Client ID: RSB14_1-2												
Cyanide, Total	ND	10	7.8	76	10	96	96	96	75-125	25	-	35
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1105576-4 WG1105576-5 QC Sample: L1812273-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.175	88	0.188	94	94	94	80-120	7	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812435

Report Date: 04/19/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1105429-3 QC Sample: L1812435-18 Client ID: RSBFB01_041018						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1105431-6 QC Sample: L1812435-02 Client ID: RSB05_6-7						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11-17 QC Batch ID: WG1105433-6 QC Sample: L1812435-11 Client ID: RSB13_7-8						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-17 QC Batch ID: WG1105630-1 QC Sample: L1812435-01 Client ID: RSB05_0-1						
Solids, Total	89.3	88.6	%	1		20

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-01A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-01B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-01C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-01D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)
L1812435-01E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),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)
L1812435-01F	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-01G	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-01X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-01Y	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-01Z	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-02A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-02B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-02C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-02D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04191811:38
Lab Number: L1812435
Report Date: 04/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-02E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),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)
L1812435-02F	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-02G	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-02X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-02Y	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-02Z	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-03A	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-03B	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-03C	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-03D	Plastic 2oz unpreserved for TS	B	NA		2.3	Y	Absent		TS(7)
L1812435-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),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)
L1812435-03F	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-03G	Glass 500ml/16oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-03X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-03Y	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-03Z	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-04A	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-04B	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-04C	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-04D	Plastic 2oz unpreserved for TS	B	NA		2.3	Y	Absent		TS(7)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04191811:38
Lab Number: L1812435
Report Date: 04/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),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)
L1812435-04F	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-04G	Glass 500ml/16oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-04X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-04Y	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-04Z	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-05A	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-05B	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-05C	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-05D	Plastic 2oz unpreserved for TS	B	NA		2.3	Y	Absent		TS(7)
L1812435-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),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)
L1812435-05F	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-05G	Glass 500ml/16oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-05X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-05Y	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-05Z	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-06A	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-06B	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-06C	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-06D	Plastic 2oz unpreserved for TS	B	NA		2.3	Y	Absent		TS(7)

Project Name: 4650 BROADWAY

Lab Number: L1812435

Project Number: 170505502

Report Date: 04/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-06E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),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)
L1812435-06F	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-06G	Glass 500ml/16oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-06X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-06Y	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-06Z	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-07A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-07B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-07C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-07D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)
L1812435-07E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),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)
L1812435-07F	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-07G	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-07X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-07Y	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-07Z	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-08A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-08B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-08C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-08D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04191811:38
Lab Number: L1812435
Report Date: 04/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-08E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),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)
L1812435-08F	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-08G	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-08X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-08Y	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-08Z	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:27	NYTCL-8260HLW(14)
L1812435-09A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-09B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-09C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-09D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)
L1812435-09E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),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)
L1812435-09F	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-09G	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-09X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-09Y	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-09Z	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-10A	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-10B	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-10C	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-10D	Plastic 2oz unpreserved for TS	B	NA		2.3	Y	Absent		TS(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-10E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),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)
L1812435-10F	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-10G	Glass 500ml/16oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-10X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-10Y	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-10Z	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-11A	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-11B	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-11C	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-11D	Plastic 2oz unpreserved for TS	B	NA		2.3	Y	Absent		TS(7)
L1812435-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),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)
L1812435-11F	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-11G	Glass 500ml/16oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-11X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-11Y	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-11Z	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-12A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-12B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-12C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-12D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days



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Project Number: 170505502

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-12E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),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)
L1812435-12F	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-12G	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-12X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-12Y	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-12Z	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-13A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-13B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-13C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-13D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)
L1812435-13E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),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)
L1812435-13F	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-13G	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-13X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-13Y	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-13Z	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-14A	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-14B	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-14C	5 gram Encore Sampler	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-14D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)

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Project Number: 170505502

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Lab Number: L1812435
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-14E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),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)
L1812435-14F	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-14G	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-14X	Vial MeOH preserved split	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L1812435-14Y	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-14Z	Vial Water preserved split	C	NA		2.1	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-15A	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-15B	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-15C	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-15D	Plastic 2oz unpreserved for TS	B	NA		2.3	Y	Absent		TS(7)
L1812435-15E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),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)
L1812435-15F	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-15G	Glass 500ml/16oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-15X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-15Y	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-15Z	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-16A	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-16B	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-16C	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-16D	Plastic 2oz unpreserved for TS	B	NA		2.3	Y	Absent		TS(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-16E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),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)
L1812435-16F	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-16G	Glass 500ml/16oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-16X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-16Y	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-16Z	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-17A	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-17B	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-17C	5 gram Encore Sampler	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-17D	Plastic 2oz unpreserved for TS	B	NA		2.3	Y	Absent		TS(7)
L1812435-17E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),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)
L1812435-17F	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-17G	Glass 500ml/16oz unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812435-17X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L1812435-17Y	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-17Z	Vial Water preserved split	B	NA		2.3	Y	Absent	11-APR-18 07:52	NYTCL-8260HLW(14)
L1812435-18A	Vial HCl preserved	A	NA		4.1	Y	Absent		NYTCL-8260(14)
L1812435-18B	Vial HCl preserved	A	NA		4.1	Y	Absent		NYTCL-8260(14)
L1812435-18C	Vial HCl preserved	A	NA		4.1	Y	Absent		NYTCL-8260(14)
L1812435-18D	Plastic 250ml NaOH preserved	A	>12	>12	4.1	Y	Absent		TCN-9010(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812435-18E	Plastic 250ml HNO3 preserved	A	<2	<2	4.1	Y	Absent		HOLD-METAL-DISSOLVED(180)
L1812435-18F	Plastic 250ml HNO3 preserved	A	<2	<2	4.1	Y	Absent		BE-TI(180),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)
L1812435-18G	Plastic 500ml unpreserved	A	7	7	4.1	Y	Absent		HEXCR-7196(1)
L1812435-18H	Amber 500ml unpreserved	A	7	7	4.1	Y	Absent		NYTCL-8081(7)
L1812435-18I	Amber 500ml unpreserved	A	7	7	4.1	Y	Absent		NYTCL-8081(7)
L1812435-18J	Amber 1000ml unpreserved	A	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1812435-18K	Amber 1000ml unpreserved	A	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1812435-18L	Amber 1000ml unpreserved	A	7	7	4.1	Y	Absent		HERB-APA(7)
L1812435-18M	Amber 1000ml unpreserved	A	7	7	4.1	Y	Absent		HERB-APA(7)
L1812435-18N	Amber 1000ml unpreserved	A	7	7	4.1	Y	Absent		NYTCL-8082-1200ML(7)
L1812435-18O	Amber 1000ml unpreserved	A	7	7	4.1	Y	Absent		NYTCL-8082-1200ML(7)
L1812435-19A	Vial HCl preserved	A	NA		4.1	Y	Absent		NYTCL-8260(14)
L1812435-19B	Vial HCl preserved	A	NA		4.1	Y	Absent		NYTCL-8260(14)

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

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Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns has been reported 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812435
Report Date: 04/19/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab	ALPHA Job #			
		1 of 2	4/10/18	L1812435			
Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables		Billing Information		
Client Information	Project Name: 4650 Broadway		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EquiS (1 File) <input type="checkbox"/> EquiS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #		
Client: <i>Layco</i>	Project Location: NY, NY		Regulatory Requirement		Disposal Site Information		
Address: 360 W 31 st St 8 th Fl	Project # 170505502						
Phone: 212-479-5400	(Use Project name as Project #) <input type="checkbox"/>		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
Fax:	Project Manager: <i>Ron Wachner</i>						
Email: <i>a.schwarzdrake@layco.com</i>	ALPHAQuote #:		ANALYSIS		Sample Filtration		
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Turn-Around Time					
Other project specific requirements/comments:		Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
Please specify Metals or TAL.		Part 375 VOCs SW6, Pesticides, Metals for hexachlorocyclopentadiene					
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Sample Specific Comments	
		Date	Time				
12435-01	RSB05-0-1	4/10/18	1424	SO	K6	X	X
-02	RSB05-6-7	4/10/18	1431	SO	K6	X	X
-03	RSB06-1-2	4/10/18	932	SO	K6	X	X
-04	RSB06-7-8	4/10/18	940	SO	K6	X	X
-05	RSB07-1-2	4/10/18	1036	SO	K6	X	X
-06	RSB07-7-8	4/10/18	1029	SO	K6	X	X
-07	RSB08-1-2	4/10/18	1208	SO	K6	X	X
-08	RSB08-7-8	4/10/18	1223	SO	K6	X	X
-09	RSB08-14-15	4/10/18	1215	SO	K6	X	X
-10	RSB08 RSB13-1-2	4/10/18	1123	SO	K6	X	X
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type			
				Preservative			
Relinquished By:		Date/Time		Received By:		Date/Time	
<i>[Signature]</i>		4/10/18 1616		<i>[Signature]</i>		4/10/18 16:16	
Daniel Santos AAL		4/10/18 2350		Daniel Santos AAL		4/10/18 18:30	
				<i>[Signature]</i>		4/10/18 23:55	
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)							

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab	ALPHA Job #							
		2 of 2	4/10/18	L1812435							
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables	Billing Information						
Client Information		Project Name: 4650 Broadway		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Same as Client Info PO #						
Client: Layan		Project Location: New York, NY		Regulatory Requirement							
Address: 360 W 31st St, 8th Fl NY, NY, 10001		Project # 170505502		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge							
Phone: 212 477-5200		Project Manager: Brian Gochenaur		Disposal Site Information							
Fax:		ALPHAQuote #:		Please identify below location of applicable disposal facilities.							
Email: a.schmiedicke@layan.com		Turn-Around Time:		Disposal Facility:							
		Standard <input checked="" type="checkbox"/> Due Date:		<input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:							
		Rush (only if pre approved) <input type="checkbox"/> # of Days:									
These samples have been previously analyzed by Alpha <input type="checkbox"/>			ANALYSIS		Sample Filtration						
Other project specific requirements/comments:			Part 375 VOCs 3 way Test, Heads, 1/2 inch 1/4 inch diameter wide		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)						
Please specify Metals or TAL.					Total Bottle						
					Sample Specific Comments						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials						
		Date	Time								
12435-11	RSB13-7-8	4/10/18	11:28	SD	KG	x	x				
-12	RSB14-1-2	4/10/18	13:45	SD	KG	x	x				
-13	RSB14-10-4	4/10/18	13:31	SD	KG	x	x				
-14	RSB14-7-8	4/10/18	13:39	SD	KG	x	x				
-15	RSB15-0-1	4/10/18	08:24	SD	KG	x	x				
-16	RSB15-11-12	4/10/18	08:42	SD	KG	x	x				
-17	RSB15-7-8	4/10/18	08:34	SD	KG	x	x				
-18	RSBFB01-041018	4/10/18			KG	x	x				Field Blank
-19	RSTB07-041018	4/10/18			KG	x					Trip Blank
Preservative Code:		Container Code:		Westboro: Certification No: MA935		Container Type				Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015		Preservative					
		Relinquished By:		Date/Time		Received By:		Date/Time			
		Ken Gault		4/10/18 1616		Daniel Santos AAL		4/10/18 18:30			
		Daniel Santos AAL		4/10/18 2350		[Signature]		4/10/18 2355			



ANALYTICAL REPORT

Lab Number:	L1812618
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	04/18/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1812618-01	RSB01_1-2	SOIL	MANHATTAN	04/11/18 09:05	04/11/18
L1812618-02	RSB01_6-7	SOIL	MANHATTAN	04/11/18 09:12	04/11/18
L1812618-03	RSB01_10-11	SOIL	MANHATTAN	04/11/18 09:20	04/11/18
L1812618-04	RSB02_0-1	SOIL	MANHATTAN	04/11/18 11:20	04/11/18
L1812618-05	RSB02_6-7	SOIL	MANHATTAN	04/11/18 11:26	04/11/18
L1812618-06	RSB03_0-1	SOIL	MANHATTAN	04/11/18 10:24	04/11/18
L1812618-07	RSB03_7-8	SOIL	MANHATTAN	04/11/18 10:01	04/11/18
L1812618-08	RSB09_1-2	SOIL	MANHATTAN	04/11/18 12:09	04/11/18
L1812618-09	RSB09_7-8	SOIL	MANHATTAN	04/11/18 12:17	04/11/18
L1812618-10	RSBDUP02_041118	SOIL	MANHATTAN	04/11/18 00:00	04/11/18
L1812618-11	RSFB02_041118	WATER	MANHATTAN	04/11/18 15:45	04/11/18
L1812618-12	RSBTB03_041118	WATER	MANHATTAN	04/11/18 00:00	04/11/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1812618-11: The collection time was specified by the client. Containers for 1,4 Dioxane via EPA 8270D-SIM and Dissolved Metals were received for the "RSFB07_041118" sample, but were not listed on the chain of custody. The analyses were not performed at the client's request.

Volatile Organics

L1812618-07: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Semivolatile Organics

The WG1106220-4/-5 MS/MSD recoveries, performed on L1812618-02, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) and benzoic acid (0%/0%) due to the concentration of this compound falling below the reported detection limit.

Total Metals

L1812618-01 through -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1105757-3/-4 MS/MSD recoveries, performed on L1812618-02, are outside the acceptance criteria for mercury (129%/126%). A post digestion spike was performed and was within acceptance criteria.

The WG1106034-3/-4 MS/MSD recoveries for aluminum (811%/700%) and iron (2490%/1950%), performed on L1812618-02, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1106034-3/-4 MS/MSD recoveries, performed on L1812618-02, are outside the acceptance criteria for magnesium (143%/142%) and manganese (MSD at 69%). A post digestion spike was performed and was

Project Name: 4650 BROADWAY
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Case Narrative (continued)

within acceptance criteria.

Cyanide, Total

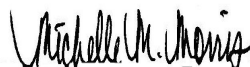
The WG1105765-2/-3 LCS/LCSD recoveries (62%/66%), associated with L1812618-01 through -10, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1105761-2 LCS recovery (134%), associated with L1812618-01 through -10, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses 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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 04/18/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
 Client ID: RSB01_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 12:01
 Analyst: JC
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.35	1
Chloroform	ND		ug/kg	1.9	0.48	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.5	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.39	1
Chlorobenzene	ND		ug/kg	1.3	0.45	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.54	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.45	1
Bromodichloromethane	ND		ug/kg	1.3	0.40	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.30	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.27	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.42	1
Bromoform	ND		ug/kg	5.2	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.25	1
Toluene	0.42	J	ug/kg	1.9	0.25	1
Ethylbenzene	0.95	J	ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.4	0.56	1
Bromomethane	ND		ug/kg	2.6	0.44	1
Vinyl chloride	ND		ug/kg	2.6	0.41	1
Chloroethane	ND		ug/kg	2.6	0.41	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.48	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.31	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
 Client ID: RSB01_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.39	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.20	1
p/m-Xylene	5.6		ug/kg	2.6	0.45	1
o-Xylene	1.5	J	ug/kg	2.6	0.44	1
Xylenes, Total	7.1	J	ug/kg	2.6	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.44	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.31	1
Dibromomethane	ND		ug/kg	13	0.31	1
Styrene	ND		ug/kg	2.6	0.52	1
Dichlorodifluoromethane	ND		ug/kg	13	0.64	1
Acetone	7.5	J	ug/kg	13	3.0	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.89	1
Vinyl acetate	ND		ug/kg	13	0.20	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.23	1
2-Hexanone	ND		ug/kg	13	0.86	1
Bromochloromethane	ND		ug/kg	6.4	0.46	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.58	1
1,2-Dibromoethane	ND		ug/kg	5.2	0.26	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.41	1
Bromobenzene	ND		ug/kg	6.4	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.4	0.32	1
o-Chlorotoluene	ND		ug/kg	6.4	0.28	1
p-Chlorotoluene	ND		ug/kg	6.4	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.51	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.45	1
Isopropylbenzene	ND		ug/kg	1.3	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	ND		ug/kg	6.4	0.18	1
Acrylonitrile	ND		ug/kg	13	0.66	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
Client ID: RSB01_1-2
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	0.35	J	ug/kg	1.3	0.28	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.28	1
1,3,5-Trimethylbenzene	0.85	J	ug/kg	6.4	0.21	1
1,2,4-Trimethylbenzene	1.7	J	ug/kg	6.4	0.24	1
1,4-Dioxane	ND		ug/kg	52	18.	1
p-Diethylbenzene	ND		ug/kg	5.2	5.2	1
p-Ethyltoluene	2.0	J	ug/kg	5.2	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.2	0.20	1
Ethyl ether	ND		ug/kg	6.4	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	111		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
 Client ID: RSB01_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 10:43
 Analyst: JC
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	730	120	1
1,1-Dichloroethane	ND		ug/kg	110	20.	1
Chloroform	ND		ug/kg	110	27.	1
Carbon tetrachloride	ND		ug/kg	73	25.	1
1,2-Dichloropropane	ND		ug/kg	260	17.	1
Dibromochloromethane	ND		ug/kg	73	13.	1
1,1,2-Trichloroethane	ND		ug/kg	110	23.	1
Tetrachloroethene	ND		ug/kg	73	22.	1
Chlorobenzene	ND		ug/kg	73	25.	1
Trichlorofluoromethane	ND		ug/kg	360	30.	1
1,2-Dichloroethane	ND		ug/kg	73	18.	1
1,1,1-Trichloroethane	ND		ug/kg	73	26.	1
Bromodichloromethane	ND		ug/kg	73	22.	1
trans-1,3-Dichloropropene	ND		ug/kg	73	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	73	17.	1
1,3-Dichloropropene, Total	ND		ug/kg	73	15.	1
1,1-Dichloropropene	ND		ug/kg	360	24.	1
Bromoform	ND		ug/kg	290	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	73	22.	1
Benzene	ND		ug/kg	73	14.	1
Toluene	ND		ug/kg	110	14.	1
Ethylbenzene	1000		ug/kg	73	12.	1
Chloromethane	48	J	ug/kg	360	32.	1
Bromomethane	80	J	ug/kg	150	25.	1
Vinyl chloride	ND		ug/kg	150	23.	1
Chloroethane	ND		ug/kg	150	23.	1
1,1-Dichloroethene	ND		ug/kg	73	27.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	18.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
Client ID: RSB01_6-7
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	73	22.	1
1,2-Dichlorobenzene	ND		ug/kg	360	13.	1
1,3-Dichlorobenzene	ND		ug/kg	360	16.	1
1,4-Dichlorobenzene	ND		ug/kg	360	13.	1
Methyl tert butyl ether	ND		ug/kg	150	11.	1
p/m-Xylene	7400		ug/kg	150	26.	1
o-Xylene	2000		ug/kg	150	25.	1
Xylenes, Total	9400		ug/kg	150	25.	1
cis-1,2-Dichloroethene	ND		ug/kg	73	25.	1
1,2-Dichloroethene, Total	ND		ug/kg	73	18.	1
Dibromomethane	ND		ug/kg	730	17.	1
Styrene	ND		ug/kg	150	29.	1
Dichlorodifluoromethane	ND		ug/kg	730	36.	1
Acetone	ND		ug/kg	730	170	1
Carbon disulfide	ND		ug/kg	730	80.	1
2-Butanone	ND		ug/kg	730	50.	1
Vinyl acetate	ND		ug/kg	730	11.	1
4-Methyl-2-pentanone	ND		ug/kg	730	18.	1
1,2,3-Trichloropropane	110	J	ug/kg	730	13.	1
2-Hexanone	ND		ug/kg	730	49.	1
Bromochloromethane	ND		ug/kg	360	26.	1
2,2-Dichloropropane	ND		ug/kg	360	33.	1
1,2-Dibromoethane	ND		ug/kg	290	14.	1
1,3-Dichloropropane	ND		ug/kg	360	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	73	23.	1
Bromobenzene	ND		ug/kg	360	16.	1
n-Butylbenzene	260		ug/kg	73	17.	1
sec-Butylbenzene	130		ug/kg	73	16.	1
tert-Butylbenzene	ND		ug/kg	360	18.	1
o-Chlorotoluene	ND		ug/kg	360	16.	1
p-Chlorotoluene	ND		ug/kg	360	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	29.	1
Hexachlorobutadiene	ND		ug/kg	360	25.	1
Isopropylbenzene	250		ug/kg	73	14.	1
p-Isopropyltoluene	73		ug/kg	73	15.	1
Naphthalene	540		ug/kg	360	10.	1
Acrylonitrile	ND		ug/kg	730	38.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
Client ID: RSB01_6-7
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	790		ug/kg	73	16.	1
1,2,3-Trichlorobenzene	ND		ug/kg	360	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	360	16.	1
1,3,5-Trimethylbenzene	2200		ug/kg	360	12.	1
1,2,4-Trimethylbenzene	6400		ug/kg	360	14.	1
1,4-Dioxane	ND		ug/kg	2900	1000	1
p-Diethylbenzene	2400		ug/kg	290	290	1
p-Ethyltoluene	4800		ug/kg	290	17.	1
1,2,4,5-Tetramethylbenzene	660		ug/kg	290	11.	1
Ethyl ether	ND		ug/kg	360	19.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	360	29.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
 Client ID: RSB01_10-11
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/16/18 10:30
 Analyst: JC
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.3	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.38	1
Chloroform	ND		ug/kg	2.1	0.52	1
Carbon tetrachloride	ND		ug/kg	1.4	0.48	1
1,2-Dichloropropane	ND		ug/kg	4.9	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.44	1
Tetrachloroethene	ND		ug/kg	1.4	0.42	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	7.0	0.58	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.49	1
Bromodichloromethane	ND		ug/kg	1.4	0.43	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.29	1
1,1-Dichloropropene	ND		ug/kg	7.0	0.46	1
Bromoform	ND		ug/kg	5.6	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.42	1
Benzene	ND		ug/kg	1.4	0.27	1
Toluene	0.72	J	ug/kg	2.1	0.27	1
Ethylbenzene	16		ug/kg	1.4	0.24	1
Chloromethane	ND		ug/kg	7.0	0.61	1
Bromomethane	ND		ug/kg	2.8	0.47	1
Vinyl chloride	ND		ug/kg	2.8	0.44	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.52	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.34	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
Client ID: RSB01_10-11
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.42	1
1,2-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	7.0	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.21	1
p/m-Xylene	100		ug/kg	2.8	0.49	1
o-Xylene	31		ug/kg	2.8	0.47	1
Xylenes, Total	130		ug/kg	2.8	0.47	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.48	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.34	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.8	0.56	1
Dichlorodifluoromethane	ND		ug/kg	14	0.70	1
Acetone	13	J	ug/kg	14	3.2	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.96	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.25	1
2-Hexanone	ND		ug/kg	14	0.93	1
Bromochloromethane	ND		ug/kg	7.0	0.50	1
2,2-Dichloropropane	ND		ug/kg	7.0	0.63	1
1,2-Dibromoethane	ND		ug/kg	5.6	0.28	1
1,3-Dichloropropane	ND		ug/kg	7.0	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	7.0	0.30	1
n-Butylbenzene	2.7		ug/kg	1.4	0.32	1
sec-Butylbenzene	1.6		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	7.0	0.34	1
o-Chlorotoluene	ND		ug/kg	7.0	0.31	1
p-Chlorotoluene	ND		ug/kg	7.0	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.0	0.55	1
Hexachlorobutadiene	ND		ug/kg	7.0	0.48	1
Isopropylbenzene	3.8		ug/kg	1.4	0.27	1
p-Isopropyltoluene	0.89	J	ug/kg	1.4	0.28	1
Naphthalene	7.1		ug/kg	7.0	0.19	1
Acrylonitrile	ND		ug/kg	14	0.72	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
Client ID: RSB01_10-11
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	10		ug/kg	1.4	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.0	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.0	0.30	1
1,3,5-Trimethylbenzene	30		ug/kg	7.0	0.22	1
1,2,4-Trimethylbenzene	84		ug/kg	7.0	0.26	1
1,4-Dioxane	ND		ug/kg	56	20.	1
p-Diethylbenzene	26		ug/kg	5.6	5.6	1
p-Ethyltoluene	61		ug/kg	5.6	0.33	1
1,2,4,5-Tetramethylbenzene	7.6		ug/kg	5.6	0.22	1
Ethyl ether	ND		ug/kg	7.0	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	0.55	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	105		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04
 Client ID: RSB02_0-1
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 12:27
 Analyst: JC
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.27	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.35	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	5.9	0.52	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.37	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04

Date Collected: 04/11/18 11:20

Client ID: RSB02_0-1

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.40	1
Xylenes, Total	ND		ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.28	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.59	1
Acetone	9.7	J	ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.82	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.79	1
Bromochloromethane	ND		ug/kg	5.9	0.42	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	5.9	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	5.9	0.29	1
o-Chlorotoluene	ND		ug/kg	5.9	0.26	1
p-Chlorotoluene	ND		ug/kg	5.9	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.47	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.41	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	5.9	0.16	1
Acrylonitrile	ND		ug/kg	12	0.61	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04
Client ID: RSB02_0-1
Sample Location: MANHATTAN

Date Collected: 04/11/18 11:20
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	0.22	1
1,4-Dioxane	ND		ug/kg	48	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	ND		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.18	1
Ethyl ether	ND		ug/kg	5.9	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	109		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
 Client ID: RSB02_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 12:53
 Analyst: JC
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	0.36	J	ug/kg	1.8	0.23	1
Ethylbenzene	22		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	6.0	0.52	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
 Client ID: RSB02_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	64		ug/kg	2.4	0.42	1
o-Xylene	1.9	J	ug/kg	2.4	0.40	1
Xylenes, Total	66	J	ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.28	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	19		ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.82	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	0.61	J	ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.26	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.47	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	4.4		ug/kg	1.2	0.23	1
p-Isopropyltoluene	0.53	J	ug/kg	1.2	0.24	1
Naphthalene	18		ug/kg	6.0	0.16	1
Acrylonitrile	ND		ug/kg	12	0.61	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
Client ID: RSB02_6-7
Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	8.4		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	30		ug/kg	6.0	0.19	1
1,2,4-Trimethylbenzene	49		ug/kg	6.0	0.22	1
1,4-Dioxane	ND		ug/kg	48	17.	1
p-Diethylbenzene	10		ug/kg	4.8	4.8	1
p-Ethyltoluene	44		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	2.8	J	ug/kg	4.8	0.19	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06
Client ID: RSB03_0-1
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/13/18 13:19
Analyst: JC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	16	2.7	1
1,1-Dichloroethane	ND		ug/kg	2.4	0.44	1
Chloroform	ND		ug/kg	2.4	0.60	1
Carbon tetrachloride	ND		ug/kg	1.6	0.56	1
1,2-Dichloropropane	ND		ug/kg	5.6	0.37	1
Dibromochloromethane	ND		ug/kg	1.6	0.28	1
1,1,2-Trichloroethane	ND		ug/kg	2.4	0.51	1
Tetrachloroethene	ND		ug/kg	1.6	0.49	1
Chlorobenzene	ND		ug/kg	1.6	0.56	1
Trichlorofluoromethane	ND		ug/kg	8.1	0.67	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.56	1
Bromodichloromethane	ND		ug/kg	1.6	0.50	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.37	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.34	1
1,1-Dichloropropene	ND		ug/kg	8.1	0.53	1
Bromoform	ND		ug/kg	6.5	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.48	1
Benzene	ND		ug/kg	1.6	0.31	1
Toluene	ND		ug/kg	2.4	0.32	1
Ethylbenzene	ND		ug/kg	1.6	0.27	1
Chloromethane	ND		ug/kg	8.1	0.70	1
Bromomethane	ND		ug/kg	3.2	0.55	1
Vinyl chloride	ND		ug/kg	3.2	0.51	1
Chloroethane	ND		ug/kg	3.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.60	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.39	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06
Client ID: RSB03_0-1
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.6	0.49	1
1,2-Dichlorobenzene	ND		ug/kg	8.1	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	8.1	0.35	1
1,4-Dichlorobenzene	ND		ug/kg	8.1	0.29	1
Methyl tert butyl ether	ND		ug/kg	3.2	0.25	1
p/m-Xylene	0.74	J	ug/kg	3.2	0.57	1
o-Xylene	ND		ug/kg	3.2	0.55	1
Xylenes, Total	0.74	J	ug/kg	3.2	0.55	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.55	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.39	1
Dibromomethane	ND		ug/kg	16	0.39	1
Styrene	ND		ug/kg	3.2	0.65	1
Dichlorodifluoromethane	ND		ug/kg	16	0.81	1
Acetone	ND		ug/kg	16	3.7	1
Carbon disulfide	ND		ug/kg	16	1.8	1
2-Butanone	ND		ug/kg	16	1.1	1
Vinyl acetate	ND		ug/kg	16	0.25	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.39	1
1,2,3-Trichloropropane	ND		ug/kg	16	0.29	1
2-Hexanone	ND		ug/kg	16	1.1	1
Bromochloromethane	ND		ug/kg	8.1	0.58	1
2,2-Dichloropropane	ND		ug/kg	8.1	0.73	1
1,2-Dibromoethane	ND		ug/kg	6.5	0.32	1
1,3-Dichloropropane	ND		ug/kg	8.1	0.30	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.51	1
Bromobenzene	ND		ug/kg	8.1	0.35	1
n-Butylbenzene	ND		ug/kg	1.6	0.37	1
sec-Butylbenzene	ND		ug/kg	1.6	0.35	1
tert-Butylbenzene	ND		ug/kg	8.1	0.40	1
o-Chlorotoluene	ND		ug/kg	8.1	0.36	1
p-Chlorotoluene	ND		ug/kg	8.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.1	0.64	1
Hexachlorobutadiene	ND		ug/kg	8.1	0.56	1
Isopropylbenzene	ND		ug/kg	1.6	0.31	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.33	1
Naphthalene	0.65	J	ug/kg	8.1	0.22	1
Acrylonitrile	ND		ug/kg	16	0.83	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06
Client ID: RSB03_0-1
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.6	0.35	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.1	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.1	0.35	1
1,3,5-Trimethylbenzene	1.7	J	ug/kg	8.1	0.26	1
1,2,4-Trimethylbenzene	4.8	J	ug/kg	8.1	0.30	1
1,4-Dioxane	ND		ug/kg	65	23.	1
p-Diethylbenzene	ND		ug/kg	6.5	6.5	1
p-Ethyltoluene	2.4	J	ug/kg	6.5	0.38	1
1,2,4,5-Tetramethylbenzene	0.58	J	ug/kg	6.5	0.25	1
Ethyl ether	ND		ug/kg	8.1	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.1	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	77		70-130
Dibromofluoromethane	115		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07 D
 Client ID: RSB03_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 11:09
 Analyst: JC
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3800	620	4
1,1-Dichloroethane	ND		ug/kg	570	100	4
Chloroform	ND		ug/kg	570	140	4
Carbon tetrachloride	ND		ug/kg	380	130	4
1,2-Dichloropropane	ND		ug/kg	1300	86.	4
Dibromochloromethane	ND		ug/kg	380	66.	4
1,1,2-Trichloroethane	ND		ug/kg	570	120	4
Tetrachloroethene	ND		ug/kg	380	110	4
Chlorobenzene	ND		ug/kg	380	130	4
Trichlorofluoromethane	ND		ug/kg	1900	160	4
1,2-Dichloroethane	ND		ug/kg	380	93.	4
1,1,1-Trichloroethane	ND		ug/kg	380	130	4
Bromodichloromethane	ND		ug/kg	380	120	4
trans-1,3-Dichloropropene	ND		ug/kg	380	78.	4
cis-1,3-Dichloropropene	ND		ug/kg	380	87.	4
1,3-Dichloropropene, Total	ND		ug/kg	380	78.	4
1,1-Dichloropropene	ND		ug/kg	1900	120	4
Bromoform	ND		ug/kg	1500	90.	4
1,1,2,2-Tetrachloroethane	ND		ug/kg	380	110	4
Benzene	ND		ug/kg	380	73.	4
Toluene	ND		ug/kg	570	74.	4
Ethylbenzene	ND		ug/kg	380	64.	4
Chloromethane	ND		ug/kg	1900	160	4
Bromomethane	260	J	ug/kg	760	130	4
Vinyl chloride	ND		ug/kg	760	120	4
Chloroethane	ND		ug/kg	760	120	4
1,1-Dichloroethene	ND		ug/kg	380	140	4
trans-1,2-Dichloroethene	ND		ug/kg	570	91.	4

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07 D

Date Collected: 04/11/18 10:01

Client ID: RSB03_7-8

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	380	110	4
1,2-Dichlorobenzene	ND		ug/kg	1900	69.	4
1,3-Dichlorobenzene	ND		ug/kg	1900	82.	4
1,4-Dichlorobenzene	ND		ug/kg	1900	69.	4
Methyl tert butyl ether	ND		ug/kg	760	58.	4
p/m-Xylene	ND		ug/kg	760	130	4
o-Xylene	ND		ug/kg	760	130	4
Xylenes, Total	ND		ug/kg	760	130	4
cis-1,2-Dichloroethene	ND		ug/kg	380	130	4
1,2-Dichloroethene, Total	ND		ug/kg	380	91.	4
Dibromomethane	ND		ug/kg	3800	90.	4
Styrene	ND		ug/kg	760	150	4
Dichlorodifluoromethane	ND		ug/kg	3800	190	4
Acetone	ND		ug/kg	3800	860	4
Carbon disulfide	ND		ug/kg	3800	420	4
2-Butanone	ND		ug/kg	3800	260	4
Vinyl acetate	ND		ug/kg	3800	58.	4
4-Methyl-2-pentanone	ND		ug/kg	3800	92.	4
1,2,3-Trichloropropane	ND		ug/kg	3800	67.	4
2-Hexanone	ND		ug/kg	3800	250	4
Bromochloromethane	ND		ug/kg	1900	130	4
2,2-Dichloropropane	ND		ug/kg	1900	170	4
1,2-Dibromoethane	ND		ug/kg	1500	75.	4
1,3-Dichloropropane	ND		ug/kg	1900	69.	4
1,1,1,2-Tetrachloroethane	ND		ug/kg	380	120	4
Bromobenzene	ND		ug/kg	1900	83.	4
n-Butylbenzene	1800		ug/kg	380	86.	4
sec-Butylbenzene	1300		ug/kg	380	82.	4
tert-Butylbenzene	ND		ug/kg	1900	93.	4
o-Chlorotoluene	ND		ug/kg	1900	83.	4
p-Chlorotoluene	ND		ug/kg	1900	69.	4
1,2-Dibromo-3-chloropropane	ND		ug/kg	1900	150	4
Hexachlorobutadiene	ND		ug/kg	1900	130	4
Isopropylbenzene	130	J	ug/kg	380	73.	4
p-Isopropyltoluene	660		ug/kg	380	76.	4
Naphthalene	ND		ug/kg	1900	52.	4
Acrylonitrile	ND		ug/kg	3800	190	4

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07 D
 Client ID: RSB03_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	560		ug/kg	380	81.	4
1,2,3-Trichlorobenzene	ND		ug/kg	1900	95.	4
1,2,4-Trichlorobenzene	ND		ug/kg	1900	81.	4
1,3,5-Trimethylbenzene	1800	J	ug/kg	1900	61.	4
1,2,4-Trimethylbenzene	3400		ug/kg	1900	70.	4
1,4-Dioxane	ND		ug/kg	15000	5400	4
p-Diethylbenzene	15000		ug/kg	1500	1500	4
p-Ethyltoluene	410	J	ug/kg	1500	88.	4
1,2,4,5-Tetramethylbenzene	2900		ug/kg	1500	59.	4
Ethyl ether	ND		ug/kg	1900	98.	4
trans-1,4-Dichloro-2-butene	ND		ug/kg	1900	150	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08
 Client ID: RSB09_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 13:46
 Analyst: JC
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.37	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.47	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.43	1
Tetrachloroethene	ND		ug/kg	1.4	0.41	1
Chlorobenzene	ND		ug/kg	1.4	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.57	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.48	1
Bromodichloromethane	ND		ug/kg	1.4	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.31	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.45	1
Bromoform	ND		ug/kg	5.4	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.40	1
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Chloromethane	ND		ug/kg	6.8	0.59	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.43	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.33	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08

Date Collected: 04/11/18 12:09

Client ID: RSB09_1-2

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.46	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.32	1
Styrene	ND		ug/kg	2.7	0.54	1
Dichlorodifluoromethane	ND		ug/kg	14	0.68	1
Acetone	6.2	J	ug/kg	14	3.1	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.94	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.91	1
Bromochloromethane	ND		ug/kg	6.8	0.48	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.61	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	6.8	0.34	1
o-Chlorotoluene	ND		ug/kg	6.8	0.30	1
p-Chlorotoluene	ND		ug/kg	6.8	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.47	1
Isopropylbenzene	ND		ug/kg	1.4	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.27	1
Naphthalene	ND		ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08
Client ID: RSB09_1-2
Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.25	1
1,4-Dioxane	ND		ug/kg	54	20.	1
p-Diethylbenzene	ND		ug/kg	5.4	5.4	1
p-Ethyltoluene	ND		ug/kg	5.4	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.21	1
Ethyl ether	ND		ug/kg	6.8	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	117		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09
 Client ID: RSB09_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:17
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 14:12
 Analyst: JC
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.30	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.36	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.33	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.5	0.48	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09

Date Collected: 04/11/18 12:17

Client ID: RSB09_7-8

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.38	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.55	1
Acetone	7.2	J	ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.76	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.73	1
Bromochloromethane	ND		ug/kg	5.5	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.5	0.27	1
o-Chlorotoluene	ND		ug/kg	5.5	0.24	1
p-Chlorotoluene	ND		ug/kg	5.5	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09
Client ID: RSB09_7-8
Sample Location: MANHATTAN

Date Collected: 04/11/18 12:17
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.20	1
1,4-Dioxane	ND		ug/kg	44	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	4.4	1
p-Ethyltoluene	ND		ug/kg	4.4	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.17	1
Ethyl ether	ND		ug/kg	5.5	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	117		70-130

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10
 Client ID: RSDUP02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/13/18 14:38
 Analyst: MKS
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	18	2.9	1
1,1-Dichloroethane	ND		ug/kg	2.7	0.48	1
Chloroform	ND		ug/kg	2.7	0.66	1
Carbon tetrachloride	ND		ug/kg	1.8	0.61	1
1,2-Dichloropropane	ND		ug/kg	6.2	0.40	1
Dibromochloromethane	ND		ug/kg	1.8	0.31	1
1,1,2-Trichloroethane	ND		ug/kg	2.7	0.56	1
Tetrachloroethene	ND		ug/kg	1.8	0.54	1
Chlorobenzene	ND		ug/kg	1.8	0.62	1
Trichlorofluoromethane	ND		ug/kg	8.9	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.44	1
1,1,1-Trichloroethane	ND		ug/kg	1.8	0.62	1
Bromodichloromethane	ND		ug/kg	1.8	0.55	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	1.8	0.41	1
1,3-Dichloropropene, Total	ND		ug/kg	1.8	0.37	1
1,1-Dichloropropene	ND		ug/kg	8.9	0.58	1
Bromoform	ND		ug/kg	7.1	0.42	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.8	0.53	1
Benzene	ND		ug/kg	1.8	0.34	1
Toluene	0.56	J	ug/kg	2.7	0.35	1
Ethylbenzene	0.36	J	ug/kg	1.8	0.30	1
Chloromethane	ND		ug/kg	8.9	0.78	1
Bromomethane	ND		ug/kg	3.6	0.60	1
Vinyl chloride	ND		ug/kg	3.6	0.56	1
Chloroethane	ND		ug/kg	3.6	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.66	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.43	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10
 Client ID: RSDUP02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.8	0.54	1
1,2-Dichlorobenzene	ND		ug/kg	8.9	0.32	1
1,3-Dichlorobenzene	ND		ug/kg	8.9	0.39	1
1,4-Dichlorobenzene	ND		ug/kg	8.9	0.32	1
Methyl tert butyl ether	ND		ug/kg	3.6	0.27	1
p/m-Xylene	1.8	J	ug/kg	3.6	0.62	1
o-Xylene	0.62	J	ug/kg	3.6	0.60	1
Xylenes, Total	2.4	J	ug/kg	3.6	0.60	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.61	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	0.43	1
Dibromomethane	ND		ug/kg	18	0.42	1
Styrene	ND		ug/kg	3.6	0.71	1
Dichlorodifluoromethane	ND		ug/kg	18	0.89	1
Acetone	26		ug/kg	18	4.1	1
Carbon disulfide	ND		ug/kg	18	2.0	1
2-Butanone	ND		ug/kg	18	1.2	1
Vinyl acetate	ND		ug/kg	18	0.27	1
4-Methyl-2-pentanone	ND		ug/kg	18	0.43	1
1,2,3-Trichloropropane	ND		ug/kg	18	0.31	1
2-Hexanone	ND		ug/kg	18	1.2	1
Bromochloromethane	ND		ug/kg	8.9	0.63	1
2,2-Dichloropropane	ND		ug/kg	8.9	0.80	1
1,2-Dibromoethane	ND		ug/kg	7.1	0.35	1
1,3-Dichloropropane	ND		ug/kg	8.9	0.32	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.8	0.56	1
Bromobenzene	ND		ug/kg	8.9	0.39	1
n-Butylbenzene	ND		ug/kg	1.8	0.40	1
sec-Butylbenzene	ND		ug/kg	1.8	0.38	1
tert-Butylbenzene	ND		ug/kg	8.9	0.44	1
o-Chlorotoluene	ND		ug/kg	8.9	0.39	1
p-Chlorotoluene	ND		ug/kg	8.9	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.9	0.70	1
Hexachlorobutadiene	ND		ug/kg	8.9	0.62	1
Isopropylbenzene	ND		ug/kg	1.8	0.34	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.36	1
Naphthalene	ND		ug/kg	8.9	0.24	1
Acrylonitrile	ND		ug/kg	18	0.91	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10
Client ID: RSBDUP02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.8	0.38	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.9	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.9	0.38	1
1,3,5-Trimethylbenzene	0.56	J	ug/kg	8.9	0.29	1
1,2,4-Trimethylbenzene	1.7	J	ug/kg	8.9	0.33	1
1,4-Dioxane	ND		ug/kg	71	26.	1
p-Diethylbenzene	ND		ug/kg	7.1	7.1	1
p-Ethyltoluene	1.2	J	ug/kg	7.1	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.1	0.28	1
Ethyl ether	ND		ug/kg	8.9	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.9	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	116		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
Client ID: RSFB02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
Date Received: 04/11/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/15/18 14:37
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
 Client ID: RSFB02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
 Date Received: 04/11/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
Client ID: RSFB02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
Date Received: 04/11/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	85		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	88		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-12
Client ID: RSBTB03_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/15/18 15:05
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-12
 Client ID: RSBTB03_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-12
Client ID: RSBTB03_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	88		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	90		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/18 08:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04-06,08-10 Batch: WG1106239-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	0.61	J	ug/kg	5.0	0.44
Bromomethane	1.4	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/18 08:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04-06,08-10 Batch: WG1106239-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/18 08:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04-06,08-10 Batch: WG1106239-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	81		70-130
Dibromofluoromethane	112		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/18 08:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,07 Batch: WG1106286-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	31	J	ug/kg	250	22.
Bromomethane	68	J	ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/18 08:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,07 Batch: WG1106286-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene, Total	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.

Project Name: 4650 BROADWAY
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**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/13/18 08:33
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,07 Batch: WG1106286-5					
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
1,4-Dioxane	ND		ug/kg	2000	720
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	81		70-130
Dibromofluoromethane	112		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/16/18 08:47
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1106835-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	0.60	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/16/18 08:47
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1106835-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/16/18 08:47
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1106835-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	113		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/15/18 10:23
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11-12 Batch: WG1106877-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505502

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Report Date: 04/18/18

Method Blank Analysis
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Analytical Method: 1,8260C
 Analytical Date: 04/15/18 10:23
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11-12 Batch: WG1106877-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/15/18 10:23
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11-12 Batch: WG1106877-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	93		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04-06,08-10 Batch: WG1106239-3 WG1106239-4								
Methylene chloride	104		105		70-130	1		30
1,1-Dichloroethane	116		115		70-130	1		30
Chloroform	103		101		70-130	2		30
Carbon tetrachloride	113		113		70-130	0		30
1,2-Dichloropropane	123		124		70-130	1		30
Dibromochloromethane	93		95		70-130	2		30
1,1,2-Trichloroethane	97		99		70-130	2		30
Tetrachloroethene	110		112		70-130	2		30
Chlorobenzene	105		106		70-130	1		30
Trichlorofluoromethane	111		110		70-139	1		30
1,2-Dichloroethane	110		109		70-130	1		30
1,1,1-Trichloroethane	103		101		70-130	2		30
Bromodichloromethane	103		104		70-130	1		30
trans-1,3-Dichloropropene	87		90		70-130	3		30
cis-1,3-Dichloropropene	109		108		70-130	1		30
1,1-Dichloropropene	103		102		70-130	1		30
Bromoform	86		86		70-130	0		30
1,1,2,2-Tetrachloroethane	89		89		70-130	0		30
Benzene	103		104		70-130	1		30
Toluene	93		94		70-130	1		30
Ethylbenzene	91		92		70-130	1		30
Chloromethane	149	Q	146	Q	52-130	2		30
Bromomethane	107		105		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04-06,08-10 Batch: WG1106239-3 WG1106239-4								
Vinyl chloride	121		117		67-130	3		30
Chloroethane	110		107		50-151	3		30
1,1-Dichloroethene	106		104		65-135	2		30
trans-1,2-Dichloroethene	104		103		70-130	1		30
Trichloroethene	105		105		70-130	0		30
1,2-Dichlorobenzene	109		108		70-130	1		30
1,3-Dichlorobenzene	110		107		70-130	3		30
1,4-Dichlorobenzene	108		106		70-130	2		30
Methyl tert butyl ether	93		91		66-130	2		30
p/m-Xylene	108		110		70-130	2		30
o-Xylene	103		105		70-130	2		30
cis-1,2-Dichloroethene	104		106		70-130	2		30
Dibromomethane	106		109		70-130	3		30
Styrene	108		107		70-130	1		30
Dichlorodifluoromethane	96		96		30-146	0		30
Acetone	140		144	Q	54-140	3		30
Carbon disulfide	103		103		59-130	0		30
2-Butanone	118		113		70-130	4		30
Vinyl acetate	116		119		70-130	3		30
4-Methyl-2-pentanone	84		88		70-130	5		30
1,2,3-Trichloropropane	87		83		68-130	5		30
2-Hexanone	87		76		70-130	13		30
Bromochloromethane	132	Q	131	Q	70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04-06,08-10 Batch: WG1106239-3 WG1106239-4								
2,2-Dichloropropane	108		106		70-130	2		30
1,2-Dibromoethane	102		104		70-130	2		30
1,3-Dichloropropane	92		95		69-130	3		30
1,1,1,2-Tetrachloroethane	108		111		70-130	3		30
Bromobenzene	98		97		70-130	1		30
n-Butylbenzene	93		89		70-130	4		30
sec-Butylbenzene	96		91		70-130	5		30
tert-Butylbenzene	98		95		70-130	3		30
o-Chlorotoluene	88		85		70-130	3		30
p-Chlorotoluene	87		86		70-130	1		30
1,2-Dibromo-3-chloropropane	91		89		68-130	2		30
Hexachlorobutadiene	97		94		67-130	3		30
Isopropylbenzene	94		91		70-130	3		30
p-Isopropyltoluene	103		98		70-130	5		30
Naphthalene	94		93		70-130	1		30
Acrylonitrile	119		116		70-130	3		30
n-Propylbenzene	88		84		70-130	5		30
1,2,3-Trichlorobenzene	109		107		70-130	2		30
1,2,4-Trichlorobenzene	107		103		70-130	4		30
1,3,5-Trimethylbenzene	99		96		70-130	3		30
1,2,4-Trimethylbenzene	101		97		70-130	4		30
1,4-Dioxane	122		126		65-136	3		30
p-Diethylbenzene	94		90		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04-06,08-10 Batch: WG1106239-3 WG1106239-4								
p-Ethyltoluene	89		86		70-130	3		30
1,2,4,5-Tetramethylbenzene	92		88		70-130	4		30
Ethyl ether	91		93		67-130	2		30
trans-1,4-Dichloro-2-butene	86		84		70-130	2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	102		100		70-130
Toluene-d8	90		91		70-130
4-Bromofluorobenzene	83		80		70-130
Dibromofluoromethane	116		114		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,07 Batch: WG1106286-3 WG1106286-4								
Methylene chloride	104		105		70-130	1		30
1,1-Dichloroethane	116		115		70-130	1		30
Chloroform	103		101		70-130	2		30
Carbon tetrachloride	113		113		70-130	0		30
1,2-Dichloropropane	123		124		70-130	1		30
Dibromochloromethane	93		95		70-130	2		30
1,1,2-Trichloroethane	97		99		70-130	2		30
Tetrachloroethene	110		112		70-130	2		30
Chlorobenzene	105		106		70-130	1		30
Trichlorofluoromethane	111		110		70-139	1		30
1,2-Dichloroethane	110		109		70-130	1		30
1,1,1-Trichloroethane	103		101		70-130	2		30
Bromodichloromethane	103		104		70-130	1		30
trans-1,3-Dichloropropene	87		90		70-130	3		30
cis-1,3-Dichloropropene	109		108		70-130	1		30
1,1-Dichloropropene	103		102		70-130	1		30
Bromoform	86		86		70-130	0		30
1,1,2,2-Tetrachloroethane	89		89		70-130	0		30
Benzene	103		104		70-130	1		30
Toluene	93		94		70-130	1		30
Ethylbenzene	91		92		70-130	1		30
Chloromethane	149	Q	146	Q	52-130	2		30
Bromomethane	107		105		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,07 Batch: WG1106286-3 WG1106286-4								
Vinyl chloride	121		117		67-130	3		30
Chloroethane	110		107		50-151	3		30
1,1-Dichloroethene	106		104		65-135	2		30
trans-1,2-Dichloroethene	104		103		70-130	1		30
Trichloroethene	105		105		70-130	0		30
1,2-Dichlorobenzene	109		108		70-130	1		30
1,3-Dichlorobenzene	110		107		70-130	3		30
1,4-Dichlorobenzene	108		106		70-130	2		30
Methyl tert butyl ether	93		91		66-130	2		30
p/m-Xylene	108		110		70-130	2		30
o-Xylene	103		105		70-130	2		30
cis-1,2-Dichloroethene	104		106		70-130	2		30
Dibromomethane	106		109		70-130	3		30
Styrene	108		107		70-130	1		30
Dichlorodifluoromethane	96		96		30-146	0		30
Acetone	140		144	Q	54-140	3		30
Carbon disulfide	103		103		59-130	0		30
2-Butanone	118		113		70-130	4		30
Vinyl acetate	116		119		70-130	3		30
4-Methyl-2-pentanone	84		88		70-130	5		30
1,2,3-Trichloropropane	87		83		68-130	5		30
2-Hexanone	87		76		70-130	13		30
Bromochloromethane	132	Q	131	Q	70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,07 Batch: WG1106286-3 WG1106286-4								
2,2-Dichloropropane	108		106		70-130	2		30
1,2-Dibromoethane	102		104		70-130	2		30
1,3-Dichloropropane	92		95		69-130	3		30
1,1,1,2-Tetrachloroethane	108		111		70-130	3		30
Bromobenzene	98		97		70-130	1		30
n-Butylbenzene	93		89		70-130	4		30
sec-Butylbenzene	96		91		70-130	5		30
tert-Butylbenzene	98		95		70-130	3		30
o-Chlorotoluene	88		85		70-130	3		30
p-Chlorotoluene	87		86		70-130	1		30
1,2-Dibromo-3-chloropropane	91		89		68-130	2		30
Hexachlorobutadiene	97		94		67-130	3		30
Isopropylbenzene	94		91		70-130	3		30
p-Isopropyltoluene	103		98		70-130	5		30
Naphthalene	94		93		70-130	1		30
Acrylonitrile	119		116		70-130	3		30
n-Propylbenzene	88		84		70-130	5		30
1,2,3-Trichlorobenzene	109		107		70-130	2		30
1,2,4-Trichlorobenzene	107		103		70-130	4		30
1,3,5-Trimethylbenzene	99		96		70-130	3		30
1,2,4-Trimethylbenzene	101		97		70-130	4		30
1,4-Dioxane	122		126		65-136	3		30
p-Diethylbenzene	94		90		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,07 Batch: WG1106286-3 WG1106286-4								
p-Ethyltoluene	89		86		70-130	3		30
1,2,4,5-Tetramethylbenzene	92		88		70-130	4		30
Ethyl ether	91		93		67-130	2		30
trans-1,4-Dichloro-2-butene	86		84		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		100		70-130
Toluene-d8	90		91		70-130
4-Bromofluorobenzene	83		80		70-130
Dibromofluoromethane	116		114		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1106835-3 WG1106835-4								
Methylene chloride	105		104		70-130	1		30
1,1-Dichloroethane	112		111		70-130	1		30
Chloroform	97		98		70-130	1		30
Carbon tetrachloride	104		104		70-130	0		30
1,2-Dichloropropane	122		123		70-130	1		30
Dibromochloromethane	90		92		70-130	2		30
1,1,2-Trichloroethane	96		98		70-130	2		30
Tetrachloroethene	109		110		70-130	1		30
Chlorobenzene	103		105		70-130	2		30
Trichlorofluoromethane	104		102		70-139	2		30
1,2-Dichloroethane	98		100		70-130	2		30
1,1,1-Trichloroethane	94		95		70-130	1		30
Bromodichloromethane	99		99		70-130	0		30
trans-1,3-Dichloropropene	85		87		70-130	2		30
cis-1,3-Dichloropropene	108		109		70-130	1		30
1,1-Dichloropropene	101		100		70-130	1		30
Bromoform	81		85		70-130	5		30
1,1,1,2-Tetrachloroethane	86		88		70-130	2		30
Benzene	104		103		70-130	1		30
Toluene	91		91		70-130	0		30
Ethylbenzene	89		89		70-130	0		30
Chloromethane	133	Q	134	Q	52-130	1		30
Bromomethane	120		118		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1106835-3 WG1106835-4								
Vinyl chloride	123		122		67-130	1		30
Chloroethane	114		111		50-151	3		30
1,1-Dichloroethene	108		106		65-135	2		30
trans-1,2-Dichloroethene	105		103		70-130	2		30
Trichloroethene	103		104		70-130	1		30
1,2-Dichlorobenzene	105		108		70-130	3		30
1,3-Dichlorobenzene	103		106		70-130	3		30
1,4-Dichlorobenzene	104		107		70-130	3		30
Methyl tert butyl ether	92		91		66-130	1		30
p/m-Xylene	106		106		70-130	0		30
o-Xylene	100		102		70-130	2		30
cis-1,2-Dichloroethene	105		106		70-130	1		30
Dibromomethane	106		105		70-130	1		30
Styrene	105		106		70-130	1		30
Dichlorodifluoromethane	88		88		30-146	0		30
Acetone	151	Q	175	Q	54-140	15		30
Carbon disulfide	104		102		59-130	2		30
2-Butanone	123		130		70-130	6		30
Vinyl acetate	112		107		70-130	5		30
4-Methyl-2-pentanone	87		89		70-130	2		30
1,2,3-Trichloropropane	81		83		68-130	2		30
2-Hexanone	80		88		70-130	10		30
Bromochloromethane	131	Q	130		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1106835-3 WG1106835-4								
2,2-Dichloropropane	103		100		70-130	3		30
1,2-Dibromoethane	100		102		70-130	2		30
1,3-Dichloropropane	92		92		69-130	0		30
1,1,1,2-Tetrachloroethane	104		106		70-130	2		30
Bromobenzene	95		98		70-130	3		30
n-Butylbenzene	84		88		70-130	5		30
sec-Butylbenzene	89		91		70-130	2		30
tert-Butylbenzene	92		95		70-130	3		30
o-Chlorotoluene	82		85		70-130	4		30
p-Chlorotoluene	83		85		70-130	2		30
1,2-Dibromo-3-chloropropane	90		92		68-130	2		30
Hexachlorobutadiene	90		92		67-130	2		30
Isopropylbenzene	89		91		70-130	2		30
p-Isopropyltoluene	95		98		70-130	3		30
Naphthalene	90		93		70-130	3		30
Acrylonitrile	123		118		70-130	4		30
n-Propylbenzene	82		84		70-130	2		30
1,2,3-Trichlorobenzene	102		105		70-130	3		30
1,2,4-Trichlorobenzene	99		103		70-130	4		30
1,3,5-Trimethylbenzene	92		95		70-130	3		30
1,2,4-Trimethylbenzene	94		98		70-130	4		30
1,4-Dioxane	130		127		65-136	2		30
p-Diethylbenzene	87		90		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1106835-3 WG1106835-4								
p-Ethyltoluene	82		85		70-130	4		30
1,2,4,5-Tetramethylbenzene	84		87		70-130	4		30
Ethyl ether	101		101		67-130	0		30
trans-1,4-Dichloro-2-butene	81		81		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	89		89		70-130
4-Bromofluorobenzene	80		83		70-130
Dibromofluoromethane	112		110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11-12 Batch: WG1106877-3 WG1106877-4								
Methylene chloride	86		91		70-130	6		20
1,1-Dichloroethane	91		98		70-130	7		20
Chloroform	86		93		70-130	8		20
Carbon tetrachloride	87		94		63-132	8		20
1,2-Dichloropropane	90		98		70-130	9		20
Dibromochloromethane	87		92		63-130	6		20
1,1,2-Trichloroethane	87		94		70-130	8		20
Tetrachloroethene	93		100		70-130	7		20
Chlorobenzene	92		99		75-130	7		20
Trichlorofluoromethane	92		100		62-150	8		20
1,2-Dichloroethane	89		95		70-130	7		20
1,1,1-Trichloroethane	88		97		67-130	10		20
Bromodichloromethane	87		91		67-130	4		20
trans-1,3-Dichloropropene	88		94		70-130	7		20
cis-1,3-Dichloropropene	86		93		70-130	8		20
1,1-Dichloropropene	89		99		70-130	11		20
Bromoform	80		86		54-136	7		20
1,1,1,2,2-Tetrachloroethane	88		93		67-130	6		20
Benzene	90		98		70-130	9		20
Toluene	92		100		70-130	8		20
Ethylbenzene	91		99		70-130	8		20
Chloromethane	86		95		64-130	10		20
Bromomethane	110		110		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11-12 Batch: WG1106877-3 WG1106877-4								
Vinyl chloride	95		100		55-140	5		20
Chloroethane	97		100		55-138	3		20
1,1-Dichloroethene	91		100		61-145	9		20
trans-1,2-Dichloroethene	90		98		70-130	9		20
Trichloroethene	89		96		70-130	8		20
1,2-Dichlorobenzene	92		97		70-130	5		20
1,3-Dichlorobenzene	95		100		70-130	5		20
1,4-Dichlorobenzene	94		99		70-130	5		20
Methyl tert butyl ether	78		84		63-130	7		20
p/m-Xylene	90		95		70-130	5		20
o-Xylene	90		95		70-130	5		20
cis-1,2-Dichloroethene	88		95		70-130	8		20
Dibromomethane	87		93		70-130	7		20
1,2,3-Trichloropropane	91		88		64-130	3		20
Acrylonitrile	81		86		70-130	6		20
Styrene	90		95		70-130	5		20
Dichlorodifluoromethane	71		79		36-147	11		20
Acetone	70		72		58-148	3		20
Carbon disulfide	90		99		51-130	10		20
2-Butanone	71		70		63-138	1		20
Vinyl acetate	79		83		70-130	5		20
4-Methyl-2-pentanone	78		84		59-130	7		20
2-Hexanone	86		89		57-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11-12 Batch: WG1106877-3 WG1106877-4								
Bromochloromethane	88		92		70-130	4		20
2,2-Dichloropropane	94		100		63-133	6		20
1,2-Dibromoethane	88		92		70-130	4		20
1,3-Dichloropropane	90		95		70-130	5		20
1,1,1,2-Tetrachloroethane	90		97		64-130	7		20
Bromobenzene	96		100		70-130	4		20
n-Butylbenzene	97		100		53-136	3		20
sec-Butylbenzene	95		100		70-130	5		20
tert-Butylbenzene	96		100		70-130	4		20
o-Chlorotoluene	91		99		70-130	8		20
p-Chlorotoluene	93		100		70-130	7		20
1,2-Dibromo-3-chloropropane	80		80		41-144	0		20
Hexachlorobutadiene	120		130		63-130	8		20
Isopropylbenzene	95		100		70-130	5		20
p-Isopropyltoluene	98		100		70-130	2		20
Naphthalene	80		84		70-130	5		20
n-Propylbenzene	95		100		69-130	5		20
1,2,3-Trichlorobenzene	90		95		70-130	5		20
1,2,4-Trichlorobenzene	96		100		70-130	4		20
1,3,5-Trimethylbenzene	95		100		64-130	5		20
1,2,4-Trimethylbenzene	96		100		70-130	4		20
1,4-Dioxane	128		116		56-162	10		20
p-Diethylbenzene	98		100		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11-12 Batch: WG1106877-3 WG1106877-4								
p-Ethyltoluene	97		100		70-130	3		20
1,2,4,5-Tetramethylbenzene	96		100		70-130	4		20
Ethyl ether	84		89		59-134	6		20
trans-1,4-Dichloro-2-butene	70		73		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	94		94		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,07 QC Batch ID: WG1106286-6 WG1106286-7 QC Sample: L1812618-02 Client ID: RSB01_6-7												
Methylene chloride	ND	7300	8000	110		8000	110		70-130	0		30
1,1-Dichloroethane	ND	7300	9400	128		9000	123		70-130	4		30
Chloroform	ND	7300	8200	112		7700	105		70-130	6		30
Carbon tetrachloride	ND	7300	9900	135	Q	9100	125		70-130	8		30
1,2-Dichloropropane	ND	7300	10000	142	Q	10000	138	Q	70-130	3		30
Dibromochloromethane	ND	7300	8000	110		7600	104		70-130	6		30
1,1,2-Trichloroethane	ND	7300	9900	136	Q	9700	133	Q	70-130	2		30
Tetrachloroethene	ND	7300	9400	129		9400	128		70-130	1		30
Chlorobenzene	ND	7300	8700	119		8400	115		70-130	3		30
Trichlorofluoromethane	ND	7300	7500	103		7000	96		70-139	7		30
1,2-Dichloroethane	ND	7300	8600	118		7600	104		70-130	13		30
1,1,1-Trichloroethane	ND	7300	8700	119		8100	110		70-130	8		30
Bromodichloromethane	ND	7300	8900	122		8300	114		70-130	7		30
trans-1,3-Dichloropropene	ND	7300	7500	103		7100	98		70-130	5		30
cis-1,3-Dichloropropene	ND	7300	9700	132	Q	9200	126		70-130	5		30
1,1-Dichloropropene	ND	7300	9300	127		8900	122		70-130	4		30
Bromoform	ND	7300	7500	103		7400	101		70-130	1		30
1,1,2,2-Tetrachloroethane	ND	7300	6900	94		6800	93		70-130	1		30
Benzene	ND	7300	8500	116		8400	115		70-130	1		30
Toluene	ND	7300	7600	104		7500	103		70-130	0		30
Ethylbenzene	1000	7300	8800	107		8500	103		70-130	3		30
Chloromethane	48.J	7300	12000	159	Q	11000	151	Q	52-130	5		30
Bromomethane	80.J	7300	7500	102		8700	118		57-147	15		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,07 QC Batch ID: WG1106286-6 WG1106286-7 QC Sample: L1812618-02 Client ID: RSB01_6-7												
Vinyl chloride	ND	7300	10000	141	Q	11000	149	Q	67-130	6		30
Chloroethane	ND	7300	4500	62		3700	51		50-151	19		30
1,1-Dichloroethene	ND	7300	9000	123		8900	122		65-135	0		30
trans-1,2-Dichloroethene	ND	7300	8600	118		8700	119		70-130	1		30
Trichloroethene	ND	7300	8900	121		8500	117		70-130	4		30
1,2-Dichlorobenzene	ND	7300	8900	121		8800	120		70-130	1		30
1,3-Dichlorobenzene	ND	7300	8800	120		8700	119		70-130	1		30
1,4-Dichlorobenzene	ND	7300	8600	117		8500	116		70-130	1		30
Methyl tert butyl ether	ND	7300	7600	104		7300	100		66-130	4		30
p/m-Xylene	7400	15000	25000	114		24000	111		70-130	2		30
o-Xylene	2000	15000	20000	117		19000	112		70-130	4		30
cis-1,2-Dichloroethene	ND	7300	8600	118		8500	116		70-130	1		30
Dibromomethane	ND	7300	9100	124		8300	114		70-130	9		30
Styrene	ND	15000	19000	124		18000	120		70-130	3		30
Dichlorodifluoromethane	ND	7300	8300	113		7800	107		30-146	6		30
Acetone	ND	7300	12000	168	Q	12000	163	Q	54-140	3		30
Carbon disulfide	ND	7300	8800	120		8800	120		59-130	0		30
2-Butanone	ND	7300	14000	192	Q	13000	182	Q	70-130	5		30
Vinyl acetate	ND	7300	9400	129		8400	115		70-130	11		30
4-Methyl-2-pentanone	ND	7300	9100	124		8600	118		70-130	5		30
1,2,3-Trichloropropane	110J	7300	6800	94		6600	90		68-130	4		30
2-Hexanone	ND	7300	8300	113		7800	106		70-130	6		30
Bromochloromethane	ND	7300	9700	133	Q	9300	127		70-130	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,07 QC Batch ID: WG1106286-6 WG1106286-7 QC Sample: L1812618-02 Client ID: RSB01_6-7												
2,2-Dichloropropane	ND	7300	8800	120		8200	112		70-130	7		30
1,2-Dibromoethane	ND	7300	8700	119		8300	113		70-130	5		30
1,3-Dichloropropane	ND	7300	7700	106		7400	101		69-130	4		30
1,1,1,2-Tetrachloroethane	ND	7300	9000	123		8500	117		70-130	5		30
Bromobenzene	ND	7300	8200	112		8200	112		70-130	0		30
n-Butylbenzene	260	7300	8000	106		7900	105		70-130	1		30
sec-Butylbenzene	130	7300	8400	113		8400	113		70-130	0		30
tert-Butylbenzene	ND	7300	8800	120		8700	120		70-130	1		30
o-Chlorotoluene	ND	7300	7300	100		7200	99		70-130	1		30
p-Chlorotoluene	ND	7300	7400	101		7300	100		70-130	1		30
1,2-Dibromo-3-chloropropane	ND	7300	8500	116		8400	114		68-130	2		30
Hexachlorobutadiene	ND	7300	8200	112		8200	112		67-130	0		30
Isopropylbenzene	250	7300	8800	116		8800	117		70-130	1		30
p-Isopropyltoluene	73	7300	9200	125		9200	125		70-130	0		30
Naphthalene	540	7300	9700	125		9600	124		70-130	1		30
Acrylonitrile	ND	7300	12000	167	Q	11000	153	Q	70-130	9		30
n-Propylbenzene	790	7300	8300	103		8300	103		70-130	0		30
1,2,3-Trichlorobenzene	ND	7300	8900	122		8900	122		70-130	0		30
1,2,4-Trichlorobenzene	ND	7300	8900	121		8800	120		70-130	1		30
1,3,5-Trimethylbenzene	2200	7300	10000	111		10000	110		70-130	1		30
1,2,4-Trimethylbenzene	6400	7300	14000	105		14000	104		70-130	1		30
1,4-Dioxane	ND	360000	480000	134		450000	125		65-136	7		30
p-Diethylbenzene	2400	7300	10000	110		11000	111		70-130	1		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,07 QC Batch ID: WG1106286-6 WG1106286-7 QC Sample: L1812618-02 Client ID: RSB01_6-7												
p-Ethyltoluene	4800	7300	12000	96		12000	96		70-130	0		30
1,2,4,5-Tetramethylbenzene	660	7300	8900	113		8800	112		70-130	1		30
Ethyl ether	ND	7300	8200	112		7200	98		67-130	13		30
trans-1,4-Dichloro-2-butene	ND	7300	7100	97		6600	91		70-130	7		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		92		70-130
4-Bromofluorobenzene	84		84		70-130
Dibromofluoromethane	110		105		70-130
Toluene-d8	89		89		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
 Client ID: RSB01_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/16/18 15:28
 Analyst: ALS
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	34	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
Client ID: RSB01_1-2
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	22	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	40	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
Client ID: RSB01_1-2
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	39		10-136
4-Terphenyl-d14	62		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
Client ID: RSB01_6-7
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/16/18 15:02
Analyst: ALS
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	370		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02

Date Collected: 04/11/18 09:12

Client ID: RSB01_6-7

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	320		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
Client ID: RSB01_6-7
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	53		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
Client ID: RSB01_10-11
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/16/18 15:55
Analyst: ALS
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	440		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03

Date Collected: 04/11/18 09:20

Client ID: RSB01_10-11

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	320		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	31.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
Client ID: RSB01_10-11
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	57		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04
 Client ID: RSB02_0-1
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/16/18 16:21
 Analyst: ALS
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04

Date Collected: 04/11/18 11:20

Client ID: RSB02_0-1

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04
Client ID: RSB02_0-1
Sample Location: MANHATTAN

Date Collected: 04/11/18 11:20
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	60		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
 Client ID: RSB02_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/16/18 16:47
 Analyst: ALS
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05

Date Collected: 04/11/18 11:26

Client ID: RSB02_6-7

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
Client ID: RSB02_6-7
Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	63		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06
Client ID: RSB03_0-1
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/17/18 16:13
Analyst: ALS
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	230		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	69	J	ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06

Date Collected: 04/11/18 10:24

Client ID: RSB03_0-1

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	120		ug/kg	110	20.	1
Benzo(a)pyrene	92	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	130		ug/kg	110	30.	1
Benzo(k)fluoranthene	45	J	ug/kg	110	28.	1
Chrysene	110		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	50	J	ug/kg	110	34.	1
Benzo(ghi)perylene	63	J	ug/kg	140	21.	1
Fluorene	19	J	ug/kg	180	17.	1
Phenanthrene	130		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	69	J	ug/kg	140	25.	1
Pyrene	240		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	46	J	ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06
Client ID: RSB03_0-1
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	23		10-136
4-Terphenyl-d14	64		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07
 Client ID: RSB03_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/16/18 17:14
 Analyst: ALS
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	71.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07
Client ID: RSB03_7-8
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	49	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	150	J	ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07
Client ID: RSB03_7-8
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	55		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08
 Client ID: RSB09_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/16/18 17:41
 Analyst: ALS
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08

Date Collected: 04/11/18 12:09

Client ID: RSB09_1-2

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08
Client ID: RSB09_1-2
Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	78		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09
Client ID: RSB09_7-8
Sample Location: MANHATTAN

Date Collected: 04/11/18 12:17
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/16/18 18:07
Analyst: ALS
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	590		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09

Date Collected: 04/11/18 12:17

Client ID: RSB09_7-8

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	270		ug/kg	110	21.	1
Benzo(a)pyrene	260		ug/kg	150	46.	1
Benzo(b)fluoranthene	340		ug/kg	110	32.	1
Benzo(k)fluoranthene	100	J	ug/kg	110	30.	1
Chrysene	300		ug/kg	110	19.	1
Acenaphthylene	52	J	ug/kg	150	29.	1
Anthracene	58	J	ug/kg	110	36.	1
Benzo(ghi)perylene	150		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	220		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	41	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	160		ug/kg	150	26.	1
Pyrene	530		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09
 Client ID: RSB09_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:17
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	61		18-120

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10
 Client ID: RSDUP02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/16/18 18:34
 Analyst: ALS
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	46	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	89	J	ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10
 Client ID: RSDUP02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	27	J	ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	31.	1
Chrysene	28	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	44	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10
 Client ID: RSBDUP02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	37		10-136
4-Terphenyl-d14	68		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
Client ID: RSFB02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
Date Received: 04/11/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/16/18 11:32
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 04/14/18 19:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
Client ID: RSFB02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
Date Received: 04/11/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	106		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
Client ID: RSFB02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
Date Received: 04/11/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/17/18 18:17
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/14/18 19:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
 Client ID: RSFB02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
 Date Received: 04/11/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	99		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/14/18 20:27
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1106220-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/14/18 20:27
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1106220-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/14/18 20:27
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/13/18 09:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1106220-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	68		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/16/18 08:28
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 04/14/18 19:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1106602-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/16/18 08:28
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 04/14/18 19:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1106602-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/16/18 08:28
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 04/14/18 19:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1106602-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	105		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/15/18 11:29
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/14/18 19:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 11 Batch: WG1106603-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D-SIM

Extraction Method: EPA 3510C

Analytical Date: 04/15/18 11:29

Extraction Date: 04/14/18 19:46

Analyst: DV

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 11 Batch: WG1106603-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	121		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1106220-2 WG1106220-3								
Acenaphthene	60		70		31-137	15		50
1,2,4-Trichlorobenzene	58		64		38-107	10		50
Hexachlorobenzene	62		66		40-140	6		50
Bis(2-chloroethyl)ether	59		65		40-140	10		50
2-Chloronaphthalene	63		68		40-140	8		50
1,2-Dichlorobenzene	60		67		40-140	11		50
1,3-Dichlorobenzene	61		67		40-140	9		50
1,4-Dichlorobenzene	60		64		28-104	6		50
3,3'-Dichlorobenzidine	47		53		40-140	12		50
2,4-Dinitrotoluene	64		75		40-132	16		50
2,6-Dinitrotoluene	64		69		40-140	8		50
Fluoranthene	64		72		40-140	12		50
4-Chlorophenyl phenyl ether	63		65		40-140	3		50
4-Bromophenyl phenyl ether	64		70		40-140	9		50
Bis(2-chloroisopropyl)ether	69		76		40-140	10		50
Bis(2-chloroethoxy)methane	57		66		40-117	15		50
Hexachlorobutadiene	63		70		40-140	11		50
Hexachlorocyclopentadiene	48		52		40-140	8		50
Hexachloroethane	68		73		40-140	7		50
Isophorone	61		66		40-140	8		50
Naphthalene	62		66		40-140	6		50
Nitrobenzene	66		72		40-140	9		50
NDPA/DPA	65		73		36-157	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1106220-2 WG1106220-3								
n-Nitrosodi-n-propylamine	64		68		32-121	6		50
Bis(2-ethylhexyl)phthalate	68		78		40-140	14		50
Butyl benzyl phthalate	69		76		40-140	10		50
Di-n-butylphthalate	63		73		40-140	15		50
Di-n-octylphthalate	66		77		40-140	15		50
Diethyl phthalate	68		74		40-140	8		50
Dimethyl phthalate	61		69		40-140	12		50
Benzo(a)anthracene	64		77		40-140	18		50
Benzo(a)pyrene	63		74		40-140	16		50
Benzo(b)fluoranthene	65		80		40-140	21		50
Benzo(k)fluoranthene	57		65		40-140	13		50
Chrysene	63		70		40-140	11		50
Acenaphthylene	65		71		40-140	9		50
Anthracene	63		71		40-140	12		50
Benzo(ghi)perylene	64		73		40-140	13		50
Fluorene	64		71		40-140	10		50
Phenanthrene	63		70		40-140	11		50
Dibenzo(a,h)anthracene	62		70		40-140	12		50
Indeno(1,2,3-cd)pyrene	65		75		40-140	14		50
Pyrene	62		69		35-142	11		50
Biphenyl	62		67		54-104	8		50
4-Chloroaniline	60		67		40-140	11		50
2-Nitroaniline	67		73		47-134	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1106220-2 WG1106220-3								
3-Nitroaniline	50		57		26-129	13		50
4-Nitroaniline	61		66		41-125	8		50
Dibenzofuran	62		70		40-140	12		50
2-Methylnaphthalene	59		66		40-140	11		50
1,2,4,5-Tetrachlorobenzene	64		71		40-117	10		50
Acetophenone	64		70		14-144	9		50
2,4,6-Trichlorophenol	63		71		30-130	12		50
p-Chloro-m-cresol	70		77		26-103	10		50
2-Chlorophenol	65		72		25-102	10		50
2,4-Dichlorophenol	68		73		30-130	7		50
2,4-Dimethylphenol	68		73		30-130	7		50
2-Nitrophenol	66		75		30-130	13		50
4-Nitrophenol	70		78		11-114	11		50
2,4-Dinitrophenol	48		60		4-130	22		50
4,6-Dinitro-o-cresol	69		77		10-130	11		50
Pentachlorophenol	52		57		17-109	9		50
Phenol	64		70		26-90	9		50
2-Methylphenol	68		76		30-130.	11		50
3-Methylphenol/4-Methylphenol	71		78		30-130	9		50
2,4,5-Trichlorophenol	71		80		30-130	12		50
Benzoic Acid	37		37		10-110	0		50
Benzyl Alcohol	71		74		40-140	4		50
Carbazole	63		70		54-128	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1106220-2 WG1106220-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		72		25-120
Phenol-d6	70		78		10-120
Nitrobenzene-d5	57		65		23-120
2-Fluorobiphenyl	57		61		30-120
2,4,6-Tribromophenol	67		77		10-136
4-Terphenyl-d14	56		62		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1106602-2 WG1106602-3								
Acenaphthene	89		92		37-111	3		30
1,2,4-Trichlorobenzene	68		68		39-98	0		30
Hexachlorobenzene	81		79		40-140	3		30
Bis(2-chloroethyl)ether	74		82		40-140	10		30
2-Chloronaphthalene	80		81		40-140	1		30
1,2-Dichlorobenzene	64		69		40-140	8		30
1,3-Dichlorobenzene	62		67		40-140	8		30
1,4-Dichlorobenzene	63		67		36-97	6		30
3,3'-Dichlorobenzidine	70		72		40-140	3		30
2,4-Dinitrotoluene	91		94		48-143	3		30
2,6-Dinitrotoluene	89		91		40-140	2		30
Fluoranthene	88		89		40-140	1		30
4-Chlorophenyl phenyl ether	84		88		40-140	5		30
4-Bromophenyl phenyl ether	82		86		40-140	5		30
Bis(2-chloroisopropyl)ether	83		91		40-140	9		30
Bis(2-chloroethoxy)methane	81		83		40-140	2		30
Hexachlorobutadiene	65		66		40-140	2		30
Hexachlorocyclopentadiene	63		65		40-140	3		30
Hexachloroethane	64		62		40-140	3		30
Isophorone	81		88		40-140	8		30
Naphthalene	73		77		40-140	5		30
Nitrobenzene	79		83		40-140	5		30
NDPA/DPA	88		90		40-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1106602-2 WG1106602-3								
n-Nitrosodi-n-propylamine	87		89		29-132	2		30
Bis(2-ethylhexyl)phthalate	98		96		40-140	2		30
Butyl benzyl phthalate	92		92		40-140	0		30
Di-n-butylphthalate	93		95		40-140	2		30
Di-n-octylphthalate	94		93		40-140	1		30
Diethyl phthalate	89		88		40-140	1		30
Dimethyl phthalate	88		87		40-140	1		30
Benzo(a)anthracene	90		92		40-140	2		30
Benzo(a)pyrene	94		92		40-140	2		30
Benzo(b)fluoranthene	92		90		40-140	2		30
Benzo(k)fluoranthene	93		91		40-140	2		30
Chrysene	94		94		40-140	0		30
Acenaphthylene	84		86		45-123	2		30
Anthracene	88		88		40-140	0		30
Benzo(ghi)perylene	95		94		40-140	1		30
Fluorene	87		88		40-140	1		30
Phenanthrene	88		91		40-140	3		30
Dibenzo(a,h)anthracene	95		94		40-140	1		30
Indeno(1,2,3-cd)pyrene	98		97		40-140	1		30
Pyrene	85		88		26-127	3		30
Biphenyl	81		82		40-140	1		30
4-Chloroaniline	49		49		40-140	0		30
2-Nitroaniline	88		92		52-143	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1106602-2 WG1106602-3								
3-Nitroaniline	64		67		25-145	5		30
4-Nitroaniline	84		87		51-143	4		30
Dibenzofuran	83		85		40-140	2		30
2-Methylnaphthalene	76		77		40-140	1		30
1,2,4,5-Tetrachlorobenzene	76		80		2-134	5		30
Acetophenone	81		88		39-129	8		30
2,4,6-Trichlorophenol	85		88		30-130	3		30
p-Chloro-m-cresol	92		91		23-97	1		30
2-Chlorophenol	78		84		27-123	7		30
2,4-Dichlorophenol	84		91		30-130	8		30
2,4-Dimethylphenol	74		79		30-130	7		30
2-Nitrophenol	82		88		30-130	7		30
4-Nitrophenol	64		65		10-80	2		30
2,4-Dinitrophenol	78		81		20-130	4		30
4,6-Dinitro-o-cresol	94		97		20-164	3		30
Pentachlorophenol	85		80		9-103	6		30
Phenol	45		49		12-110	9		30
2-Methylphenol	78		84		30-130	7		30
3-Methylphenol/4-Methylphenol	74		79		30-130	7		30
2,4,5-Trichlorophenol	93		98		30-130	5		30
Benzoic Acid	26		24		10-164	8		30
Benzyl Alcohol	71		76		26-116	7		30
Carbazole	90		90		55-144	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1106602-2 WG1106602-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61		69		21-120
Phenol-d6	48		51		10-120
Nitrobenzene-d5	85		90		23-120
2-Fluorobiphenyl	90		93		15-120
2,4,6-Tribromophenol	82		87		10-120
4-Terphenyl-d14	99		100		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 11 Batch: WG1106603-2 WG1106603-3								
Acenaphthene	82		81		40-140	1		40
2-Chloronaphthalene	73		72		40-140	1		40
Fluoranthene	88		83		40-140	6		40
Hexachlorobutadiene	56		59		40-140	5		40
Naphthalene	74		74		40-140	0		40
Benzo(a)anthracene	78		72		40-140	8		40
Benzo(a)pyrene	84		75		40-140	11		40
Benzo(b)fluoranthene	86		75		40-140	14		40
Benzo(k)fluoranthene	86		77		40-140	11		40
Chrysene	80		75		40-140	6		40
Acenaphthylene	78		74		40-140	5		40
Anthracene	84		78		40-140	7		40
Benzo(ghi)perylene	87		72		40-140	19		40
Fluorene	93		86		40-140	8		40
Phenanthrene	82		78		40-140	5		40
Dibenzo(a,h)anthracene	92		76		40-140	19		40
Indeno(1,2,3-cd)pyrene	93		76		40-140	20		40
Pyrene	90		84		40-140	7		40
2-Methylnaphthalene	74		74		40-140	0		40
Pentachlorophenol	77		74		40-140	4		40
Hexachlorobenzene	72		68		40-140	6		40
Hexachloroethane	62		68		40-140	9		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 11 Batch: WG1106603-2 WG1106603-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		54		21-120
Phenol-d6	41		40		10-120
Nitrobenzene-d5	99		99		23-120
2-Fluorobiphenyl	90		84		15-120
2,4,6-Tribromophenol	75		68		10-120
4-Terphenyl-d14	112		105		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1106220-4 WG1106220-5 QC Sample: L1812618-02 Client ID: RSB01_6-7												
Acenaphthene	ND	1600	1100	69		1100	70		31-137	0		50
1,2,4-Trichlorobenzene	ND	1600	1000	63		1100	70		38-107	10		50
Hexachlorobenzene	ND	1600	940	59		1000	64		40-140	6		50
Bis(2-chloroethyl)ether	ND	1600	1000	63		1100	70		40-140	10		50
2-Chloronaphthalene	ND	1600	1100	69		1100	70		40-140	0		50
1,2-Dichlorobenzene	ND	1600	1000	63		1100	70		40-140	10		50
1,3-Dichlorobenzene	ND	1600	1000	63		1100	70		40-140	10		50
1,4-Dichlorobenzene	ND	1600	1000	63		1100	70		28-104	10		50
3,3'-Dichlorobenzidine	ND	1600	730	46		810	51		40-140	10		50
2,4-Dinitrotoluene	ND	1600	1100	69		1100	70		40-132	0		50
2,6-Dinitrotoluene	ND	1600	1000	63		1100	70		40-140	10		50
Fluoranthene	ND	1600	1000	63		1100	70		40-140	10		50
4-Chlorophenyl phenyl ether	ND	1600	1000	63		1100	70		40-140	10		50
4-Bromophenyl phenyl ether	ND	1600	1000	63		1100	70		40-140	10		50
Bis(2-chloroisopropyl)ether	ND	1600	1100	69		1200	76		40-140	9		50
Bis(2-chloroethoxy)methane	ND	1600	1000	63		1100	70		40-117	10		50
Hexachlorobutadiene	ND	1600	1100	69		1200	76		40-140	9		50
Hexachlorocyclopentadiene	ND	1600	960	60		1000	64		40-140	4		50
Hexachloroethane	ND	1600	1200	75		1300	83		40-140	8		50
Isophorone	ND	1600	1000	63		1100	70		40-140	10		50
Naphthalene	370	1600	1400	65		1500	72		40-140	7		50
Nitrobenzene	ND	1600	1100	69		1100	70		40-140	0		50
NDPA/DPA	ND	1600	1100	69		1100	70		36-157	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1106220-4 WG1106220-5 QC Sample: L1812618-02 Client ID: RSB01_6-7												
n-Nitrosodi-n-propylamine	ND	1600	1100	69		1200	76		32-121	9		50
Bis(2-ethylhexyl)phthalate	ND	1600	1200	75		1200	76		40-140	0		50
Butyl benzyl phthalate	ND	1600	1100	69		1200	76		40-140	9		50
Di-n-butylphthalate	ND	1600	1100	69		1100	70		40-140	0		50
Di-n-octylphthalate	ND	1600	1100	69		1200	76		40-140	9		50
Diethyl phthalate	ND	1600	1100	69		1100	70		40-140	0		50
Dimethyl phthalate	ND	1600	1000	63		1100	70		40-140	10		50
Benzo(a)anthracene	ND	1600	1100	69		1100	70		40-140	0		50
Benzo(a)pyrene	ND	1600	1100	69		1200	76		40-140	9		50
Benzo(b)fluoranthene	ND	1600	1100	69		1100	70		40-140	0		50
Benzo(k)fluoranthene	ND	1600	1000	63		1100	70		40-140	10		50
Chrysene	ND	1600	1100	69		1100	70		40-140	0		50
Acenaphthylene	ND	1600	1100	69		1100	70		40-140	0		50
Anthracene	ND	1600	1100	69		1100	70		40-140	0		50
Benzo(ghi)perylene	ND	1600	1000	63		1100	70		40-140	10		50
Fluorene	ND	1600	1100	69		1100	70		40-140	0		50
Phenanthrene	ND	1600	1000	63		1100	70		40-140	10		50
Dibenzo(a,h)anthracene	ND	1600	1100	69		1100	70		40-140	0		50
Indeno(1,2,3-cd)pyrene	ND	1600	1100	69		1100	70		40-140	0		50
Pyrene	ND	1600	990	62		1100	70		35-142	11		50
Biphenyl	ND	1600	1100	69		1200	76		54-104	9		50
4-Chloroaniline	ND	1600	610	38	Q	670	43		40-140	9		50
2-Nitroaniline	ND	1600	1100	69		1300	83		47-134	17		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1106220-4 WG1106220-5 QC Sample: L1812618-02 Client ID: RSB01_6-7												
3-Nitroaniline	ND	1600	870	54		990	63		26-129	13		50
4-Nitroaniline	ND	1600	1200	75		1300	83		41-125	8		50
Dibenzofuran	ND	1600	1100	69		1100	70		40-140	0		50
2-Methylnaphthalene	320	1600	1400	68		1500	75		40-140	7		50
1,2,4,5-Tetrachlorobenzene	ND	1600	1100	69		1200	76		40-117	9		50
Acetophenone	ND	1600	1400	88		1500	95		14-144	7		50
2,4,6-Trichlorophenol	ND	1600	770	48		860	55		30-130	11		50
p-Chloro-m-cresol	ND	1600	1200	75		1200	76		26-103	0		50
2-Chlorophenol	ND	1600	1000	63		1100	70		25-102	10		50
2,4-Dichlorophenol	ND	1600	1000	63		1100	70		30-130	10		50
2,4-Dimethylphenol	ND	1600	1200	75		1200	76		30-130	0		50
2-Nitrophenol	ND	1600	890	56		920	58		30-130	3		50
4-Nitrophenol	ND	1600	420	26		520	33		11-114	21		50
2,4-Dinitrophenol	ND	1600	ND	0	Q	ND	0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1600	160J	10		160J	10		10-130	0		50
Pentachlorophenol	ND	1600	300	19		360	23		17-109	18		50
Phenol	ND	1600	1000	63		1100	70		26-90	10		50
2-Methylphenol	ND	1600	1100	69		1200	76		30-130	9		50
3-Methylphenol/4-Methylphenol	ND	1600	1100	69		1200	76		30-130	9		50
2,4,5-Trichlorophenol	ND	1600	1000	63		1100	70		30-130	10		50
Benzoic Acid	ND	1600	ND	0	Q	ND	0	Q	10-110	NC		50
Benzyl Alcohol	ND	1600	880	55		910	58		40-140	3		50
Carbazole	ND	1600	1100	69		1100	70		54-128	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1106220-4 WG1106220-5 QC Sample: L1812618-02 Client ID: RSB01_6-7

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	56		62		10-136
2-Fluorobiphenyl	62		65		30-120
2-Fluorophenol	65		70		25-120
4-Terphenyl-d14	52		58		18-120
Nitrobenzene-d5	62		67		23-120
Phenol-d6	73		79		10-120

PCBS

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
Client ID: RSB01_1-2
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/18 05:45
Analyst: WR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 13:26
Cleanup Method: EPA 3665A
Cleanup Date: 04/13/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.7	4.39	1	A
Aroclor 1221	ND		ug/kg	38.7	5.89	1	A
Aroclor 1232	ND		ug/kg	38.7	3.81	1	A
Aroclor 1242	ND		ug/kg	38.7	4.74	1	A
Aroclor 1248	ND		ug/kg	38.7	4.34	1	A
Aroclor 1254	ND		ug/kg	38.7	3.16	1	A
Aroclor 1260	ND		ug/kg	38.7	4.04	1	A
Aroclor 1262	ND		ug/kg	38.7	3.18	1	A
Aroclor 1268	ND		ug/kg	38.7	2.74	1	A
PCBs, Total	ND		ug/kg	38.7	2.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
 Client ID: RSB01_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 05:08
 Analyst: WR
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 13:26
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/13/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.2	4.33	1	A
Aroclor 1221	ND		ug/kg	38.2	5.82	1	A
Aroclor 1232	ND		ug/kg	38.2	3.76	1	A
Aroclor 1242	ND		ug/kg	38.2	4.68	1	A
Aroclor 1248	ND		ug/kg	38.2	4.29	1	A
Aroclor 1254	ND		ug/kg	38.2	3.12	1	A
Aroclor 1260	ND		ug/kg	38.2	3.99	1	A
Aroclor 1262	ND		ug/kg	38.2	3.14	1	A
Aroclor 1268	ND		ug/kg	38.2	2.70	1	A
PCBs, Total	ND		ug/kg	38.2	2.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
 Client ID: RSB01_10-11
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 05:58
 Analyst: WR
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 13:26
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/13/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.1	4.55	1	A
Aroclor 1221	ND		ug/kg	40.1	6.11	1	A
Aroclor 1232	ND		ug/kg	40.1	3.95	1	A
Aroclor 1242	ND		ug/kg	40.1	4.91	1	A
Aroclor 1248	ND		ug/kg	40.1	4.50	1	A
Aroclor 1254	ND		ug/kg	40.1	3.28	1	A
Aroclor 1260	ND		ug/kg	40.1	4.19	1	A
Aroclor 1262	ND		ug/kg	40.1	3.30	1	A
Aroclor 1268	ND		ug/kg	40.1	2.84	1	A
PCBs, Total	ND		ug/kg	40.1	2.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04
 Client ID: RSB02_0-1
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 06:10
 Analyst: WR
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 13:26
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/13/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	4.14	1	A
Aroclor 1221	ND		ug/kg	36.5	5.55	1	A
Aroclor 1232	ND		ug/kg	36.5	3.59	1	A
Aroclor 1242	ND		ug/kg	36.5	4.46	1	A
Aroclor 1248	ND		ug/kg	36.5	4.09	1	A
Aroclor 1254	4.41	J	ug/kg	36.5	2.98	1	A
Aroclor 1260	ND		ug/kg	36.5	3.81	1	A
Aroclor 1262	ND		ug/kg	36.5	3.00	1	A
Aroclor 1268	ND		ug/kg	36.5	2.58	1	A
PCBs, Total	4.41	J	ug/kg	36.5	2.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
Client ID: RSB02_6-7
Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/18 06:23
Analyst: WR
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 13:26
Cleanup Method: EPA 3665A
Cleanup Date: 04/13/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.8	4.62	1	A
Aroclor 1221	ND		ug/kg	40.8	6.21	1	A
Aroclor 1232	ND		ug/kg	40.8	4.01	1	A
Aroclor 1242	ND		ug/kg	40.8	4.99	1	A
Aroclor 1248	ND		ug/kg	40.8	4.58	1	A
Aroclor 1254	17.0	J	ug/kg	40.8	3.33	1	A
Aroclor 1260	23.7	J	ug/kg	40.8	4.26	1	A
Aroclor 1262	ND		ug/kg	40.8	3.35	1	A
Aroclor 1268	46.6		ug/kg	40.8	2.89	1	A
PCBs, Total	87.3	J	ug/kg	40.8	2.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06
 Client ID: RSB03_0-1
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 06:35
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 13:26
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/13/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.88	1	A
Aroclor 1221	ND		ug/kg	34.2	5.21	1	A
Aroclor 1232	ND		ug/kg	34.2	3.37	1	A
Aroclor 1242	ND		ug/kg	34.2	4.19	1	A
Aroclor 1248	58.1		ug/kg	34.2	3.84	1	B
Aroclor 1254	38.9		ug/kg	34.2	2.79	1	A
Aroclor 1260	23.0	J	ug/kg	34.2	3.57	1	A
Aroclor 1262	ND		ug/kg	34.2	2.81	1	A
Aroclor 1268	ND		ug/kg	34.2	2.42	1	A
PCBs, Total	120	J	ug/kg	34.2	2.42	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07
Client ID: RSB03_7-8
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/18 06:48
Analyst: WR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 13:26
Cleanup Method: EPA 3665A
Cleanup Date: 04/13/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.1	4.55	1	A
Aroclor 1221	ND		ug/kg	40.1	6.10	1	A
Aroclor 1232	ND		ug/kg	40.1	3.95	1	A
Aroclor 1242	ND		ug/kg	40.1	4.91	1	A
Aroclor 1248	ND		ug/kg	40.1	4.50	1	A
Aroclor 1254	5.68	J	ug/kg	40.1	3.27	1	A
Aroclor 1260	ND		ug/kg	40.1	4.19	1	A
Aroclor 1262	ND		ug/kg	40.1	3.30	1	A
Aroclor 1268	ND		ug/kg	40.1	2.84	1	A
PCBs, Total	5.68	J	ug/kg	40.1	2.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08
 Client ID: RSB09_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 07:00
 Analyst: WR
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 13:26
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/13/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	4.06	1	A
Aroclor 1221	ND		ug/kg	35.8	5.45	1	A
Aroclor 1232	ND		ug/kg	35.8	3.52	1	A
Aroclor 1242	ND		ug/kg	35.8	4.38	1	A
Aroclor 1248	ND		ug/kg	35.8	4.02	1	A
Aroclor 1254	ND		ug/kg	35.8	2.92	1	A
Aroclor 1260	ND		ug/kg	35.8	3.74	1	A
Aroclor 1262	ND		ug/kg	35.8	2.94	1	A
Aroclor 1268	ND		ug/kg	35.8	2.54	1	A
PCBs, Total	ND		ug/kg	35.8	2.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09
 Client ID: RSB09_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:17
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/17/18 07:13
 Analyst: WR
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 13:26
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/13/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	4.16	1	A
Aroclor 1221	ND		ug/kg	36.7	5.59	1	A
Aroclor 1232	ND		ug/kg	36.7	3.61	1	A
Aroclor 1242	ND		ug/kg	36.7	4.49	1	A
Aroclor 1248	ND		ug/kg	36.7	4.12	1	A
Aroclor 1254	ND		ug/kg	36.7	3.00	1	A
Aroclor 1260	ND		ug/kg	36.7	3.83	1	A
Aroclor 1262	ND		ug/kg	36.7	3.02	1	A
Aroclor 1268	ND		ug/kg	36.7	2.60	1	A
PCBs, Total	ND		ug/kg	36.7	2.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10
Client ID: RSBDUP02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/18 07:25
Analyst: WR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 13:26
Cleanup Method: EPA 3665A
Cleanup Date: 04/13/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	4.19	1	A
Aroclor 1221	ND		ug/kg	37.0	5.63	1	A
Aroclor 1232	ND		ug/kg	37.0	3.64	1	A
Aroclor 1242	ND		ug/kg	37.0	4.53	1	A
Aroclor 1248	ND		ug/kg	37.0	4.15	1	A
Aroclor 1254	ND		ug/kg	37.0	3.02	1	B
Aroclor 1260	ND		ug/kg	37.0	3.86	1	B
Aroclor 1262	ND		ug/kg	37.0	3.04	1	A
Aroclor 1268	ND		ug/kg	37.0	2.62	1	A
PCBs, Total	ND		ug/kg	37.0	2.62	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
Client ID: RSFB02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
Date Received: 04/11/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/16/18 20:57
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 04/14/18 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 04/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/17/18 02:18
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 04/13/18 13:26
Cleanup Method: EPA 3665A
Cleanup Date: 04/13/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-10 Batch: WG1106320-1						
Aroclor 1016	ND		ug/kg	32.9	3.73	A
Aroclor 1221	ND		ug/kg	32.9	5.00	A
Aroclor 1232	ND		ug/kg	32.9	3.23	A
Aroclor 1242	ND		ug/kg	32.9	4.02	A
Aroclor 1248	ND		ug/kg	32.9	3.69	A
Aroclor 1254	ND		ug/kg	32.9	2.68	A
Aroclor 1260	ND		ug/kg	32.9	3.43	A
Aroclor 1262	ND		ug/kg	32.9	2.70	A
Aroclor 1268	ND		ug/kg	32.9	2.33	A
PCBs, Total	ND		ug/kg	32.9	2.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/16/18 19:39
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 04/14/18 10:30
Cleanup Method: EPA 3665A
Cleanup Date: 04/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 11 Batch: WG1106522-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	105		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1106320-2 WG1106320-3									
Aroclor 1016	74		68		40-140	8		50	A
Aroclor 1260	77		72		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		82		30-150	A
Decachlorobiphenyl	86		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		83		30-150	B
Decachlorobiphenyl	87		84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 11 Batch: WG1106522-2 WG1106522-3									
Aroclor 1016	73		67		40-140	9		50	A
Aroclor 1260	67		64		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		83		30-150	A
Decachlorobiphenyl	70		85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		83		30-150	B
Decachlorobiphenyl	75		89		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1106320-4 WG1106320-5 QC Sample: L1812618-02 Client ID: RSB01_6-7													
Aroclor 1016	ND	244	201	83		188	77		40-140	7		50	A
Aroclor 1260	ND	244	232	95		220	90		40-140	5		50	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	78		72		30-150	A
Decachlorobiphenyl	87		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		78		30-150	B
Decachlorobiphenyl	57		58		30-150	B

PESTICIDES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
Client ID: RSB01_1-2
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/14/18 14:41
Analyst: JW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 12:22
Cleanup Method: EPA 3620B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.355	1	A
Lindane	ND		ug/kg	0.756	0.338	1	A
Alpha-BHC	ND		ug/kg	0.756	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.688	1	A
Heptachlor	ND		ug/kg	0.907	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.638	1	A
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1	A
Endrin	ND		ug/kg	0.756	0.310	1	A
Endrin aldehyde	ND		ug/kg	2.27	0.793	1	A
Endrin ketone	ND		ug/kg	1.81	0.467	1	A
Dieldrin	ND		ug/kg	1.13	0.567	1	A
4,4'-DDE	ND		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.647	1	A
4,4'-DDT	ND		ug/kg	3.40	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.606	1	A
Endosulfan sulfate	ND		ug/kg	0.756	0.360	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.52	1	A
cis-Chlordane	ND		ug/kg	2.27	0.632	1	A
trans-Chlordane	ND		ug/kg	2.27	0.598	1	A
Chlordane	ND		ug/kg	14.7	6.01	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
 Client ID: RSB01_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	110		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
 Client ID: RSB01_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/17/18 01:27
 Analyst: SL
 Percent Solids: 84%
 Methylation Date: 04/15/18 10:49

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 05:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	12.4	1	A
2,4,5-T	ND		ug/kg	196	6.09	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	5.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	101		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
 Client ID: RSB01_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/14/18 13:50
 Analyst: SL
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 08:08
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.377	1	A
Lindane	ND		ug/kg	0.803	0.359	1	A
Alpha-BHC	ND		ug/kg	0.803	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.731	1	A
Heptachlor	ND		ug/kg	0.964	0.432	1	A
Aldrin	ND		ug/kg	1.93	0.678	1	A
Heptachlor epoxide	ND		ug/kg	3.61	1.08	1	A
Endrin	ND		ug/kg	0.803	0.329	1	A
Endrin aldehyde	ND		ug/kg	2.41	0.843	1	A
Endrin ketone	ND		ug/kg	1.93	0.496	1	A
Dieldrin	ND		ug/kg	1.20	0.602	1	A
4,4'-DDE	ND		ug/kg	1.93	0.446	1	A
4,4'-DDD	ND		ug/kg	1.93	0.687	1	A
4,4'-DDT	ND		ug/kg	3.61	1.55	1	B
Endosulfan I	ND		ug/kg	1.93	0.455	1	A
Endosulfan II	ND		ug/kg	1.93	0.644	1	A
Endosulfan sulfate	ND		ug/kg	0.803	0.382	1	A
Methoxychlor	ND		ug/kg	3.61	1.12	1	A
Toxaphene	ND		ug/kg	36.1	10.1	1	A
cis-Chlordane	ND		ug/kg	2.41	0.671	1	A
trans-Chlordane	ND		ug/kg	2.41	0.636	1	A
Chlordane	ND		ug/kg	15.6	6.38	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
 Client ID: RSB01_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	119		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
 Client ID: RSB01_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/16/18 00:04
 Analyst: SL
 Percent Solids: 82%
 Methylation Date: 04/15/18 03:30

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 05:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	15.0	J	ug/kg	198	12.5	1	B
2,4,5-T	ND		ug/kg	198	6.14	1	A
2,4,5-TP (Silvex)	ND		ug/kg	198	5.27	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	116		30-150	A
DCAA	112		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
 Client ID: RSB01_10-11
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/17/18 21:03
 Analyst: JW
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 08:08
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.388	1	A
Lindane	ND		ug/kg	0.825	0.369	1	A
Alpha-BHC	ND		ug/kg	0.825	0.234	1	A
Beta-BHC	ND		ug/kg	1.98	0.751	1	A
Heptachlor	ND		ug/kg	0.990	0.444	1	A
Aldrin	ND		ug/kg	1.98	0.697	1	A
Heptachlor epoxide	ND		ug/kg	3.71	1.11	1	A
Endrin	ND		ug/kg	0.825	0.338	1	A
Endrin aldehyde	ND		ug/kg	2.47	0.866	1	A
Endrin ketone	ND		ug/kg	1.98	0.510	1	A
Dieldrin	ND		ug/kg	1.24	0.619	1	A
4,4'-DDE	ND		ug/kg	1.98	0.458	1	A
4,4'-DDD	ND		ug/kg	1.98	0.706	1	A
4,4'-DDT	ND		ug/kg	3.71	1.59	1	A
Endosulfan I	ND		ug/kg	1.98	0.468	1	A
Endosulfan II	ND		ug/kg	1.98	0.662	1	A
Endosulfan sulfate	ND		ug/kg	0.825	0.393	1	A
Methoxychlor	ND		ug/kg	3.71	1.15	1	A
Toxaphene	ND		ug/kg	37.1	10.4	1	A
cis-Chlordane	ND		ug/kg	2.47	0.690	1	A
trans-Chlordane	ND		ug/kg	2.47	0.653	1	A
Chlordane	ND		ug/kg	16.1	6.56	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
 Client ID: RSB01_10-11
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	126		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	160	Q	30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
 Client ID: RSB01_10-11
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/16/18 00:23
 Analyst: SL
 Percent Solids: 80%
 Methylation Date: 04/15/18 03:30

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 05:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	206	13.0	1	A
2,4,5-T	ND		ug/kg	206	6.40	1	A
2,4,5-TP (Silvex)	ND		ug/kg	206	5.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	123		30-150	A
DCAA	113		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04
Client ID: RSB02_0-1
Sample Location: MANHATTAN

Date Collected: 04/11/18 11:20
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/14/18 15:06
Analyst: JW
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 08:08
Cleanup Method: EPA 3620B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.357	1	A
Lindane	ND		ug/kg	0.759	0.339	1	A
Alpha-BHC	ND		ug/kg	0.759	0.216	1	A
Beta-BHC	ND		ug/kg	1.82	0.691	1	A
Heptachlor	ND		ug/kg	0.911	0.408	1	A
Aldrin	ND		ug/kg	1.82	0.642	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.02	1	A
Endrin	ND		ug/kg	0.759	0.311	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.797	1	A
Endrin ketone	ND		ug/kg	1.82	0.469	1	A
Dieldrin	ND		ug/kg	1.14	0.569	1	A
4,4'-DDE	ND		ug/kg	1.82	0.421	1	A
4,4'-DDD	ND		ug/kg	1.82	0.650	1	A
4,4'-DDT	ND		ug/kg	3.42	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.609	1	A
Endosulfan sulfate	ND		ug/kg	0.759	0.361	1	A
Methoxychlor	ND		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.57	1	A
cis-Chlordane	ND		ug/kg	2.28	0.635	1	A
trans-Chlordane	ND		ug/kg	2.28	0.601	1	A
Chlordane	ND		ug/kg	14.8	6.04	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04
 Client ID: RSB02_0-1
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	108		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	128		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04
 Client ID: RSB02_0-1
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:20
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/17/18 02:05
 Analyst: SL
 Percent Solids: 86%
 Methylation Date: 04/15/18 03:30

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 05:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.00	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	92		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
 Client ID: RSB02_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/17/18 21:15
 Analyst: JW
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 08:08
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.391	1	A
Lindane	ND		ug/kg	0.832	0.372	1	A
Alpha-BHC	ND		ug/kg	0.832	0.236	1	A
Beta-BHC	ND		ug/kg	2.00	0.758	1	A
Heptachlor	ND		ug/kg	0.999	0.448	1	A
Aldrin	ND		ug/kg	2.00	0.703	1	A
Heptachlor epoxide	ND		ug/kg	3.75	1.12	1	A
Endrin	ND		ug/kg	0.832	0.341	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.874	1	A
Endrin ketone	ND		ug/kg	2.00	0.514	1	A
Dieldrin	ND		ug/kg	1.25	0.624	1	A
4,4'-DDE	ND		ug/kg	2.00	0.462	1	A
4,4'-DDD	ND		ug/kg	2.00	0.712	1	A
4,4'-DDT	ND		ug/kg	3.75	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.472	1	A
Endosulfan II	ND		ug/kg	2.00	0.668	1	A
Endosulfan sulfate	ND		ug/kg	0.832	0.396	1	A
Methoxychlor	ND		ug/kg	3.75	1.16	1	A
Toxaphene	ND		ug/kg	37.5	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.696	1	A
trans-Chlordane	ND		ug/kg	2.50	0.659	1	A
Chlordane	ND		ug/kg	16.2	6.62	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
 Client ID: RSB02_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	102		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
 Client ID: RSB02_6-7
 Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/17/18 02:24
 Analyst: SL
 Percent Solids: 77%
 Methylation Date: 04/15/18 03:30

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 05:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	212	13.3	1	A
2,4,5-T	ND		ug/kg	212	6.56	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.63	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	96		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06
Client ID: RSB03_0-1
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/14/18 15:31
Analyst: JW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 12:22
Cleanup Method: EPA 3620B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.318	1	A
Lindane	ND		ug/kg	0.678	0.303	1	A
Alpha-BHC	ND		ug/kg	0.678	0.192	1	A
Beta-BHC	ND		ug/kg	1.63	0.617	1	A
Heptachlor	ND		ug/kg	0.813	0.364	1	A
Aldrin	ND		ug/kg	1.63	0.572	1	A
Heptachlor epoxide	ND		ug/kg	3.05	0.915	1	A
Endrin	ND		ug/kg	0.678	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.03	0.711	1	A
Endrin ketone	ND		ug/kg	1.63	0.419	1	A
Dieldrin	ND		ug/kg	1.02	0.508	1	A
4,4'-DDE	ND		ug/kg	1.63	0.376	1	A
4,4'-DDD	ND		ug/kg	1.63	0.580	1	A
4,4'-DDT	ND		ug/kg	3.05	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.384	1	A
Endosulfan II	ND		ug/kg	1.63	0.543	1	A
Endosulfan sulfate	ND		ug/kg	0.678	0.322	1	A
Methoxychlor	ND		ug/kg	3.05	0.949	1	A
Toxaphene	ND		ug/kg	30.5	8.54	1	A
cis-Chlordane	ND		ug/kg	2.03	0.566	1	A
trans-Chlordane	ND		ug/kg	2.03	0.537	1	A
Chlordane	ND		ug/kg	13.2	5.39	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06
 Client ID: RSB03_0-1
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06
 Client ID: RSB03_0-1
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/17/18 02:43
 Analyst: SL
 Percent Solids: 94%
 Methylation Date: 04/15/18 03:30

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 05:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	125		30-150	A
DCAA	113		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07
 Client ID: RSB03_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/17/18 21:28
 Analyst: JW
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 12:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.378	1	A
Lindane	ND		ug/kg	0.805	0.360	1	A
Alpha-BHC	ND		ug/kg	0.805	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.732	1	A
Heptachlor	ND		ug/kg	0.966	0.433	1	A
Aldrin	ND		ug/kg	1.93	0.680	1	A
Heptachlor epoxide	ND		ug/kg	3.62	1.09	1	A
Endrin	ND		ug/kg	0.805	0.330	1	A
Endrin aldehyde	ND		ug/kg	2.41	0.845	1	A
Endrin ketone	ND		ug/kg	1.93	0.497	1	A
Dieldrin	ND		ug/kg	1.21	0.604	1	A
4,4'-DDE	ND		ug/kg	1.93	0.447	1	A
4,4'-DDD	ND		ug/kg	1.93	0.689	1	A
4,4'-DDT	ND		ug/kg	3.62	1.55	1	A
Endosulfan I	ND		ug/kg	1.93	0.456	1	A
Endosulfan II	ND		ug/kg	1.93	0.645	1	A
Endosulfan sulfate	ND		ug/kg	0.805	0.383	1	A
Methoxychlor	ND		ug/kg	3.62	1.13	1	A
Toxaphene	ND		ug/kg	36.2	10.1	1	A
cis-Chlordane	ND		ug/kg	2.41	0.673	1	A
trans-Chlordane	ND		ug/kg	2.41	0.637	1	A
Chlordane	ND		ug/kg	15.7	6.40	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07
 Client ID: RSB03_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	123		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	142		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07
 Client ID: RSB03_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/17/18 03:01
 Analyst: SL
 Percent Solids: 79%
 Methylation Date: 04/15/18 03:30

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 05:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	208	13.1	1	B
2,4,5-T	ND		ug/kg	208	6.44	1	A
2,4,5-TP (Silvex)	ND		ug/kg	208	5.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	69		30-150	A
DCAA	85		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08
 Client ID: RSB09_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/14/18 15:57
 Analyst: JW
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 04/13/18 12:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.344	1	A
Lindane	ND		ug/kg	0.732	0.327	1	A
Alpha-BHC	ND		ug/kg	0.732	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.666	1	A
Heptachlor	ND		ug/kg	0.879	0.394	1	A
Aldrin	ND		ug/kg	1.76	0.619	1	A
Heptachlor epoxide	ND		ug/kg	3.30	0.989	1	A
Endrin	ND		ug/kg	0.732	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.20	0.769	1	A
Endrin ketone	ND		ug/kg	1.76	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.549	1	A
4,4'-DDE	ND		ug/kg	1.76	0.406	1	A
4,4'-DDD	ND		ug/kg	1.76	0.627	1	A
4,4'-DDT	ND		ug/kg	3.30	1.41	1	A
Endosulfan I	ND		ug/kg	1.76	0.415	1	A
Endosulfan II	ND		ug/kg	1.76	0.587	1	A
Endosulfan sulfate	ND		ug/kg	0.732	0.348	1	A
Methoxychlor	ND		ug/kg	3.30	1.02	1	A
Toxaphene	ND		ug/kg	33.0	9.23	1	A
cis-Chlordane	ND		ug/kg	2.20	0.612	1	A
trans-Chlordane	ND		ug/kg	2.20	0.580	1	A
Chlordane	ND		ug/kg	14.3	5.82	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08
 Client ID: RSB09_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	95		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08
 Client ID: RSB09_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/17/18 14:08
 Analyst: KEG
 Percent Solids: 90%
 Methylation Date: 04/16/18 12:25

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.71	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	129		30-150	A
DCAA	136		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09
Client ID: RSB09_7-8
Sample Location: MANHATTAN

Date Collected: 04/11/18 12:17
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/17/18 21:40
Analyst: JW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 12:22
Cleanup Method: EPA 3620B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.338	1	A
Lindane	ND		ug/kg	0.720	0.322	1	A
Alpha-BHC	ND		ug/kg	0.720	0.204	1	A
Beta-BHC	ND		ug/kg	1.73	0.655	1	A
Heptachlor	ND		ug/kg	0.864	0.387	1	A
Aldrin	ND		ug/kg	1.73	0.608	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.972	1	A
Endrin	ND		ug/kg	0.720	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.756	1	A
Endrin ketone	ND		ug/kg	1.73	0.445	1	A
Dieldrin	ND		ug/kg	1.08	0.540	1	A
4,4'-DDE	ND		ug/kg	1.73	0.399	1	A
4,4'-DDD	ND		ug/kg	1.73	0.616	1	A
4,4'-DDT	ND		ug/kg	3.24	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	ND		ug/kg	1.73	0.577	1	A
Endosulfan sulfate	ND		ug/kg	0.720	0.343	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.07	1	A
cis-Chlordane	ND		ug/kg	2.16	0.602	1	A
trans-Chlordane	ND		ug/kg	2.16	0.570	1	A
Chlordane	ND		ug/kg	14.0	5.72	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09
 Client ID: RSB09_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:17
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	121		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09
 Client ID: RSB09_7-8
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:17
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/17/18 14:27
 Analyst: KEG
 Percent Solids: 88%
 Methylation Date: 04/16/18 12:25

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	187	11.8	1	A
2,4,5-T	ND		ug/kg	187	5.80	1	A
2,4,5-TP (Silvex)	ND		ug/kg	187	4.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	120		30-150	A
DCAA	122		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10
Client ID: RSDUP02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/14/18 16:22
Analyst: JW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/13/18 12:22
Cleanup Method: EPA 3620B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.766	0.342	1	A
Alpha-BHC	ND		ug/kg	0.766	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.697	1	A
Heptachlor	ND		ug/kg	0.919	0.412	1	A
Aldrin	ND		ug/kg	1.84	0.647	1	A
Heptachlor epoxide	ND		ug/kg	3.45	1.03	1	A
Endrin	ND		ug/kg	0.766	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.804	1	A
Endrin ketone	ND		ug/kg	1.84	0.473	1	A
Dieldrin	ND		ug/kg	1.15	0.574	1	A
4,4'-DDE	ND		ug/kg	1.84	0.425	1	A
4,4'-DDD	ND		ug/kg	1.84	0.656	1	A
4,4'-DDT	ND		ug/kg	3.45	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.434	1	A
Endosulfan II	ND		ug/kg	1.84	0.614	1	A
Endosulfan sulfate	ND		ug/kg	0.766	0.365	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.65	1	A
cis-Chlordane	ND		ug/kg	2.30	0.640	1	A
trans-Chlordane	ND		ug/kg	2.30	0.607	1	A
Chlordane	ND		ug/kg	14.9	6.09	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1812618**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812618-10
 Client ID: RSDUP02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: 4650 BROADWAY**Lab Number:** L1812618**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812618-10
 Client ID: RSBDUP02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/17/18 14:46
 Analyst: KEG
 Percent Solids: 85%
 Methylation Date: 04/16/18 12:25

Extraction Method: EPA 8151A
 Extraction Date: 04/14/18 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.04	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	146		30-150	A
DCAA	137		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
Client ID: RSFB02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
Date Received: 04/11/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/16/18 16:11
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 04/13/18 21:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
Client ID: RSFB02_041118
Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
Date Received: 04/11/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	117		30-150	A
Decachlorobiphenyl	124		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	133		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
 Client ID: RSFB02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
 Date Received: 04/11/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/14/18 02:18
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 07:28

Methylation Date: 04/13/18 11:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	102		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 04/13/18 21:18
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/12/18 07:28

Methylation Date: 04/13/18 11:19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 11 Batch: WG1105806-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	109		30-150	A
DCAA	94		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/13/18 11:33
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/12/18 21:30

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 11 Batch: WG1106076-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin aldehyde	ND		ug/l	0.040	0.008	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/13/18 11:33
 Analyst: KEG

Extraction Method: EPA 3510C
 Extraction Date: 04/12/18 21:30

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 11 Batch: WG1106076-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	139		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	118		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/14/18 13:12
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 04/13/18 08:08
Cleanup Method: EPA 3620B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1106186-1						
Delta-BHC	ND		ug/kg	1.59	0.311	A
Lindane	ND		ug/kg	0.663	0.296	A
Alpha-BHC	ND		ug/kg	0.663	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.603	A
Heptachlor	ND		ug/kg	0.795	0.356	A
Aldrin	ND		ug/kg	1.59	0.560	A
Heptachlor epoxide	ND		ug/kg	2.98	0.895	A
Endrin	ND		ug/kg	0.663	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.696	A
Endrin ketone	ND		ug/kg	1.59	0.410	A
Dieldrin	ND		ug/kg	0.994	0.497	A
4,4'-DDE	ND		ug/kg	1.59	0.368	A
4,4'-DDD	ND		ug/kg	1.59	0.567	A
4,4'-DDT	ND		ug/kg	2.98	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.376	A
Endosulfan II	ND		ug/kg	1.59	0.531	A
Endosulfan sulfate	ND		ug/kg	0.663	0.315	A
Methoxychlor	ND		ug/kg	2.98	0.928	A
Toxaphene	ND		ug/kg	29.8	8.35	A
cis-Chlordane	ND		ug/kg	1.99	0.554	A
trans-Chlordane	ND		ug/kg	1.99	0.525	A
Chlordane	ND		ug/kg	12.9	5.27	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/14/18 13:12
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 04/13/18 08:08
Cleanup Method: EPA 3620B
Cleanup Date: 04/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1106186-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	101		30-150	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/15/18 19:23
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 04/14/18 05:00

Methylation Date: 04/15/18 03:30

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-07 Batch: WG1106472-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.12	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.40	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	91		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/17/18 13:12
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 04/14/18 11:07

Methylation Date: 04/16/18 12:25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 08-10 Batch: WG1106533-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.05	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	123		30-150	A
DCAA	120		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1105806-2 WG1105806-3									
2,4-D	98		90		30-150	9		25	A
2,4,5-T	100		92		30-150	8		25	A
2,4,5-TP (Silvex)	94		90		30-150	4		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	128		116		30-150	A
DCAA	123		113		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1106076-2 WG1106076-3									
Delta-BHC	115		129		30-150	11		20	A
Lindane	108		121		30-150	11		20	A
Alpha-BHC	111		123		30-150	10		20	A
Beta-BHC	112		123		30-150	9		20	A
Heptachlor	110		125		30-150	13		20	A
Aldrin	111		125		30-150	12		20	A
Heptachlor epoxide	118		133		30-150	12		20	A
Endrin	116		132		30-150	13		20	A
Endrin aldehyde	112		127		30-150	13		20	A
Endrin ketone	126		143		30-150	13		20	A
Dieldrin	119		135		30-150	13		20	A
4,4'-DDE	107		123		30-150	14		20	A
4,4'-DDD	107		127		30-150	17		20	A
4,4'-DDT	111		129		30-150	15		20	A
Endosulfan I	116		131		30-150	12		20	A
Endosulfan II	112		130		30-150	15		20	A
Endosulfan sulfate	124		139		30-150	11		20	A
Methoxychlor	114		133		30-150	15		20	A
cis-Chlordane	110		125		30-150	13		20	A
trans-Chlordane	113		129		30-150	13		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1106076-2 WG1106076-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		106		30-150	A
Decachlorobiphenyl	126		146		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		109		30-150	B
Decachlorobiphenyl	106		122		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1106186-2 WG1106186-3									
Delta-BHC	94		88		30-150	7		30	A
Lindane	93		86		30-150	8		30	A
Alpha-BHC	98		92		30-150	6		30	A
Beta-BHC	103		95		30-150	8		30	A
Heptachlor	100		97		30-150	3		30	A
Aldrin	102		98		30-150	4		30	A
Heptachlor epoxide	107		94		30-150	13		30	A
Endrin	108		103		30-150	5		30	A
Endrin aldehyde	63		45		30-150	33	Q	30	A
Endrin ketone	78		60		30-150	26		30	A
Dieldrin	107		100		30-150	7		30	A
4,4'-DDE	96		91		30-150	5		30	A
4,4'-DDD	90		87		30-150	3		30	A
4,4'-DDT	100		96		30-150	4		30	A
Endosulfan I	105		98		30-150	7		30	A
Endosulfan II	89		76		30-150	16		30	A
Endosulfan sulfate	59		41		30-150	36	Q	30	A
Methoxychlor	89		82		30-150	8		30	A
cis-Chlordane	98		92		30-150	6		30	A
trans-Chlordane	93		75		30-150	21		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1106186-2 WG1106186-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		86		30-150	B
Decachlorobiphenyl	91		90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		83		30-150	A
Decachlorobiphenyl	103		112		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1106472-2 WG1106472-3									
2,4-D	96		84		30-150	13		30	A
2,4,5-T	106		88		30-150	19		30	A
2,4,5-TP (Silvex)	95		76		30-150	22		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	127		104		30-150	A
DCAA	120		112		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 08-10 Batch: WG1106533-2 WG1106533-3									
2,4-D	98		86		30-150	13		30	A
2,4,5-T	97		87		30-150	11		30	A
2,4,5-TP (Silvex)	88		82		30-150	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	127		103		30-150	A
DCAA	131		114		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Organochlorine Pesticides by GC - Westborough Lab ID: RSB01_6-7 Associated sample(s): 01-10 QC Batch ID: WG1106186-4 WG1106186-5 QC Sample: L1812618-02 Client													
Delta-BHC	ND	38.8	17.0	44		30.9	77		30-150	58	Q	50	A
Lindane	ND	38.8	24.1	62		35.1	88		30-150	37		50	A
Alpha-BHC	ND	38.8	25.3	65		37.0	93		30-150	38		50	A
Beta-BHC	ND	38.8	31.5	81		38.9	97		30-150	21		50	A
Heptachlor	ND	38.8	31.2	80		44.4	111		30-150	35		50	A
Aldrin	ND	38.8	31.6	82		40.9	102		30-150	26		50	A
Heptachlor epoxide	ND	38.8	33.6	87		42.6	107		30-150	24		50	A
Endrin	ND	38.8	33.6	87		43.9	110		30-150	27		50	A
Endrin aldehyde	ND	38.8	21.6	56		30.7	77		30-150	35		50	A
Endrin ketone	ND	38.8	28.1	72		37.8	95		30-150	29		50	A
Dieldrin	ND	38.8	33.4	86		43.5	109		30-150	26		50	A
4,4'-DDE	ND	38.8	31.1	80		40.6	102		30-150	26		50	A
4,4'-DDD	ND	38.8	29.5	76		38.9	97		30-150	27		50	A
4,4'-DDT	ND	38.8	31.5	81		41.6	104		30-150	28		50	A
Endosulfan I	ND	38.8	29.0	75		41.0	103		30-150	34		50	A
Endosulfan II	ND	38.8	26.2	68		37.1	93		30-150	34		50	A
Endosulfan sulfate	ND	38.8	22.2	57		30.8	77		30-150	32		50	A
Methoxychlor	ND	38.8	30.8	79		40.6	102		30-150	27		50	A
cis-Chlordane	ND	38.8	29.9	77		39.4	99		30-150	27		50	A
trans-Chlordane	ND	38.8	23.0	59		32.4	81		30-150	34		50	A

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1106186-4 WG1106186-5 QC Sample: L1812618-02 Client ID: RSB01_6-7												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		99		30-150	B
Decachlorobiphenyl	90		103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		80		30-150	A
Decachlorobiphenyl	96		119		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1106472-4 WG1106472-5 QC Sample: L1812618-02 Client ID: RSB01_6-7													
2,4-D	15.0J	198	172J	87		172.J	86		30-150	0		30	B
2,4,5-T	ND	198	172J	87		174.J	87		30-150	1		30	A
2,4,5-TP (Silvex)	ND	198	156J	79		158.J	79		30-150	1		30	A

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>	<i>Column</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>		
DCAA	107		112		30-150	A
DCAA	110		105		30-150	B

METALS

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01
 Client ID: RSB01_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:05
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6770		mg/kg	9.10	2.46	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.55	0.346	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Arsenic, Total	0.273	J	mg/kg	0.910	0.189	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Barium, Total	14.5		mg/kg	0.910	0.158	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Beryllium, Total	0.164	J	mg/kg	0.455	0.030	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Cadmium, Total	0.191	J	mg/kg	0.910	0.089	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Calcium, Total	498		mg/kg	9.10	3.18	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Chromium, Total	17.5		mg/kg	0.910	0.087	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Cobalt, Total	2.85		mg/kg	1.82	0.151	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Copper, Total	4.97		mg/kg	0.910	0.235	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Iron, Total	9560		mg/kg	4.55	0.821	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Lead, Total	7.59		mg/kg	4.55	0.244	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Magnesium, Total	1900		mg/kg	9.10	1.40	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Manganese, Total	56.5		mg/kg	0.910	0.145	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Mercury, Total	0.017	J	mg/kg	0.076	0.016	1	04/12/18 08:00	04/12/18 20:08	EPA 7471B	1,7471B	EA
Nickel, Total	8.49		mg/kg	2.27	0.220	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Potassium, Total	353		mg/kg	227	13.1	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Selenium, Total	0.609	J	mg/kg	1.82	0.235	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.910	0.257	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Sodium, Total	119	J	mg/kg	182	2.86	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.82	0.286	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Vanadium, Total	10.0		mg/kg	0.910	0.185	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
Zinc, Total	22.8		mg/kg	4.55	0.266	2	04/12/18 20:11	04/13/18 15:03	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	18		mg/kg	0.95	0.95	1		04/13/18 15:03	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02

Date Collected: 04/11/18 09:12

Client ID: RSB01_6-7

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5840		mg/kg	9.49	2.56	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.74	0.360	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Arsenic, Total	0.958		mg/kg	0.949	0.197	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Barium, Total	12.4		mg/kg	0.949	0.165	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Beryllium, Total	0.123	J	mg/kg	0.474	0.031	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Cadmium, Total	0.237	J	mg/kg	0.949	0.093	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Calcium, Total	845		mg/kg	9.49	3.32	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Chromium, Total	17.0		mg/kg	0.949	0.091	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Cobalt, Total	3.46		mg/kg	1.90	0.157	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Copper, Total	9.59		mg/kg	0.949	0.245	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Iron, Total	11400		mg/kg	4.74	0.857	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Lead, Total	5.05		mg/kg	4.74	0.254	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Magnesium, Total	2080		mg/kg	9.49	1.46	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Manganese, Total	110		mg/kg	0.949	0.151	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.078	0.016	1	04/12/18 08:00	04/12/18 19:53	EPA 7471B	1,7471B	EA
Nickel, Total	7.46		mg/kg	2.37	0.230	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Potassium, Total	366		mg/kg	237	13.7	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Selenium, Total	0.474	J	mg/kg	1.90	0.245	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.949	0.268	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Sodium, Total	334		mg/kg	190	2.99	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.90	0.299	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Vanadium, Total	10.4		mg/kg	0.949	0.192	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
Zinc, Total	24.1		mg/kg	4.74	0.278	2	04/12/18 20:11	04/13/18 14:22	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	17		mg/kg	0.97	0.97	1		04/13/18 14:22	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03

Date Collected: 04/11/18 09:20

Client ID: RSB01_10-11

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2670		mg/kg	9.62	2.60	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.81	0.366	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Arsenic, Total	0.712	J	mg/kg	0.962	0.200	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Barium, Total	7.73		mg/kg	0.962	0.167	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Beryllium, Total	0.039	J	mg/kg	0.481	0.032	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.962	0.094	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Calcium, Total	314		mg/kg	9.62	3.37	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Chromium, Total	7.17		mg/kg	0.962	0.092	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Cobalt, Total	1.52	J	mg/kg	1.92	0.160	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Copper, Total	4.75		mg/kg	0.962	0.248	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Iron, Total	4660		mg/kg	4.81	0.869	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Lead, Total	3.97	J	mg/kg	4.81	0.258	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Magnesium, Total	805		mg/kg	9.62	1.48	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Manganese, Total	38.2		mg/kg	0.962	0.153	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Mercury, Total	0.029	J	mg/kg	0.079	0.017	1	04/12/18 08:00	04/12/18 20:10	EPA 7471B	1,7471B	EA
Nickel, Total	3.54		mg/kg	2.40	0.233	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Potassium, Total	214	J	mg/kg	240	13.8	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Selenium, Total	0.462	J	mg/kg	1.92	0.248	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.962	0.272	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Sodium, Total	179	J	mg/kg	192	3.03	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.92	0.303	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Vanadium, Total	5.28		mg/kg	0.962	0.195	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
Zinc, Total	9.78		mg/kg	4.81	0.282	2	04/12/18 20:11	04/13/18 15:07	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.2		mg/kg	1.0	1.0	1		04/13/18 15:07	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04

Date Collected: 04/11/18 11:20

Client ID: RSB02_0-1

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8300		mg/kg	9.11	2.46	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.56	0.346	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Arsenic, Total	0.383	J	mg/kg	0.911	0.190	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Barium, Total	26.5		mg/kg	0.911	0.158	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Beryllium, Total	0.255	J	mg/kg	0.456	0.030	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Cadmium, Total	0.146	J	mg/kg	0.911	0.089	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Calcium, Total	394		mg/kg	9.11	3.19	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Chromium, Total	10.1		mg/kg	0.911	0.088	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Cobalt, Total	2.47		mg/kg	1.82	0.151	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Copper, Total	2.26		mg/kg	0.911	0.235	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Iron, Total	7440		mg/kg	4.56	0.823	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Lead, Total	5.03		mg/kg	4.56	0.244	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Magnesium, Total	790		mg/kg	9.11	1.40	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Manganese, Total	37.1		mg/kg	0.911	0.145	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Mercury, Total	0.018	J	mg/kg	0.073	0.015	1	04/12/18 08:00	04/12/18 20:12	EPA 7471B	1,7471B	EA
Nickel, Total	5.18		mg/kg	2.28	0.220	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Potassium, Total	221	J	mg/kg	228	13.1	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Selenium, Total	0.492	J	mg/kg	1.82	0.235	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.911	0.258	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Sodium, Total	155	J	mg/kg	182	2.87	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.82	0.287	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Vanadium, Total	9.20		mg/kg	0.911	0.185	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
Zinc, Total	15.7		mg/kg	4.56	0.267	2	04/12/18 20:11	04/13/18 15:12	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.6	J	mg/kg	0.93	0.93	1		04/13/18 15:12	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05

Date Collected: 04/11/18 11:26

Client ID: RSB02_6-7

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6430		mg/kg	10.0	2.71	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	5.01	0.381	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Arsenic, Total	1.22		mg/kg	1.00	0.208	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Barium, Total	15.2		mg/kg	1.00	0.174	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Beryllium, Total	0.170	J	mg/kg	0.501	0.033	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Cadmium, Total	0.220	J	mg/kg	1.00	0.098	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Calcium, Total	756		mg/kg	10.0	3.51	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Chromium, Total	10.0		mg/kg	1.00	0.096	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Cobalt, Total	3.56		mg/kg	2.00	0.166	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Copper, Total	9.16		mg/kg	1.00	0.258	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Iron, Total	11000		mg/kg	5.01	0.905	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Lead, Total	4.94	J	mg/kg	5.01	0.269	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Magnesium, Total	2230		mg/kg	10.0	1.54	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Manganese, Total	97.2		mg/kg	1.00	0.159	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.081	0.017	1	04/12/18 08:00	04/12/18 20:14	EPA 7471B	1,7471B	EA
Nickel, Total	7.91		mg/kg	2.50	0.242	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Potassium, Total	381		mg/kg	250	14.4	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Selenium, Total	0.521	J	mg/kg	2.00	0.258	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.00	0.284	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Sodium, Total	293		mg/kg	200	3.16	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.00	0.316	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Vanadium, Total	11.0		mg/kg	1.00	0.203	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
Zinc, Total	25.6		mg/kg	5.01	0.294	2	04/12/18 20:11	04/13/18 15:17	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	1.0	1.0	1		04/13/18 15:17	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06

Date Collected: 04/11/18 10:24

Client ID: RSB03_0-1

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5220		mg/kg	8.52	2.30	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.26	0.324	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Arsenic, Total	1.39		mg/kg	0.852	0.177	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Barium, Total	18.0		mg/kg	0.852	0.148	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Beryllium, Total	0.128	J	mg/kg	0.426	0.028	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Cadmium, Total	0.366	J	mg/kg	0.852	0.084	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Calcium, Total	5130		mg/kg	8.52	2.98	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Chromium, Total	8.56		mg/kg	0.852	0.082	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Cobalt, Total	4.34		mg/kg	1.70	0.141	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Copper, Total	12.8		mg/kg	0.852	0.220	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Iron, Total	10500		mg/kg	4.26	0.769	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Lead, Total	36.4		mg/kg	4.26	0.228	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Magnesium, Total	2160		mg/kg	8.52	1.31	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Manganese, Total	177		mg/kg	0.852	0.135	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Mercury, Total	0.020	J	mg/kg	0.067	0.014	1	04/12/18 08:00	04/12/18 20:15	EPA 7471B	1,7471B	EA
Nickel, Total	8.05		mg/kg	2.13	0.206	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Potassium, Total	599		mg/kg	213	12.3	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Selenium, Total	0.341	J	mg/kg	1.70	0.220	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.852	0.241	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Sodium, Total	452		mg/kg	170	2.68	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.70	0.268	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Vanadium, Total	9.43		mg/kg	0.852	0.173	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
Zinc, Total	183		mg/kg	4.26	0.250	2	04/12/18 20:11	04/13/18 15:21	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.4	J	mg/kg	0.85	0.85	1		04/13/18 15:21	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07

Date Collected: 04/11/18 10:01

Client ID: RSB03_7-8

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6230		mg/kg	9.52	2.57	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.76	0.362	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Arsenic, Total	0.647	J	mg/kg	0.952	0.198	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Barium, Total	16.1		mg/kg	0.952	0.166	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Beryllium, Total	0.209	J	mg/kg	0.476	0.031	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Cadmium, Total	0.247	J	mg/kg	0.952	0.093	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Calcium, Total	976		mg/kg	9.52	3.33	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Chromium, Total	9.07		mg/kg	0.952	0.091	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Cobalt, Total	3.68		mg/kg	1.90	0.158	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Copper, Total	11.5		mg/kg	0.952	0.246	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Iron, Total	12200		mg/kg	4.76	0.859	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Lead, Total	11.2		mg/kg	4.76	0.255	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Magnesium, Total	2130		mg/kg	9.52	1.46	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Manganese, Total	93.4		mg/kg	0.952	0.151	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.081	0.017	1	04/12/18 08:00	04/12/18 20:21	EPA 7471B	1,7471B	EA
Nickel, Total	8.38		mg/kg	2.38	0.230	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Potassium, Total	328		mg/kg	238	13.7	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Selenium, Total	0.562	J	mg/kg	1.90	0.246	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.952	0.269	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Sodium, Total	320		mg/kg	190	3.00	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.90	0.300	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Vanadium, Total	12.3		mg/kg	0.952	0.193	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
Zinc, Total	26.7		mg/kg	4.76	0.279	2	04/12/18 20:11	04/13/18 15:26	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.1		mg/kg	1.0	1.0	1		04/13/18 15:26	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08
 Client ID: RSB09_1-2
 Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6960		mg/kg	8.79	2.37	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.39	0.334	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Arsenic, Total	1.32		mg/kg	0.879	0.183	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Barium, Total	27.6		mg/kg	0.879	0.153	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Beryllium, Total	0.167	J	mg/kg	0.439	0.029	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Cadmium, Total	0.255	J	mg/kg	0.879	0.086	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Calcium, Total	13000		mg/kg	8.79	3.08	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Chromium, Total	12.2		mg/kg	0.879	0.084	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Cobalt, Total	4.79		mg/kg	1.76	0.146	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Copper, Total	9.38		mg/kg	0.879	0.227	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Iron, Total	12000		mg/kg	4.39	0.794	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Lead, Total	15.4		mg/kg	4.39	0.236	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Magnesium, Total	2430		mg/kg	8.79	1.35	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Manganese, Total	183		mg/kg	0.879	0.140	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Mercury, Total	0.017	J	mg/kg	0.072	0.015	1	04/12/18 08:00	04/12/18 20:23	EPA 7471B	1,7471B	EA
Nickel, Total	10.1		mg/kg	2.20	0.213	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Potassium, Total	676		mg/kg	220	12.6	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Selenium, Total	0.483	J	mg/kg	1.76	0.227	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.879	0.249	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Sodium, Total	259		mg/kg	176	2.77	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.76	0.277	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Vanadium, Total	12.0		mg/kg	0.879	0.178	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
Zinc, Total	29.8		mg/kg	4.39	0.257	2	04/12/18 20:11	04/13/18 15:35	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.89	0.89	1		04/13/18 15:35	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09

Date Collected: 04/11/18 12:17

Client ID: RSB09_7-8

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7170		mg/kg	8.98	2.42	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.49	0.341	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Arsenic, Total	2.10		mg/kg	0.898	0.187	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Barium, Total	33.2		mg/kg	0.898	0.156	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Beryllium, Total	0.234	J	mg/kg	0.449	0.030	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Cadmium, Total	0.305	J	mg/kg	0.898	0.088	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Calcium, Total	4540		mg/kg	8.98	3.14	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Chromium, Total	12.6		mg/kg	0.898	0.086	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Cobalt, Total	5.16		mg/kg	1.80	0.149	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Copper, Total	13.6		mg/kg	0.898	0.232	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Iron, Total	13100		mg/kg	4.49	0.811	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Lead, Total	19.6		mg/kg	4.49	0.241	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Magnesium, Total	2720		mg/kg	8.98	1.38	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Manganese, Total	180		mg/kg	0.898	0.143	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Mercury, Total	0.022	J	mg/kg	0.074	0.016	1	04/12/18 08:00	04/12/18 20:25	EPA 7471B	1,7471B	EA
Nickel, Total	11.7		mg/kg	2.24	0.217	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Potassium, Total	629		mg/kg	224	12.9	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Selenium, Total	0.916	J	mg/kg	1.80	0.232	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.898	0.254	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Sodium, Total	231		mg/kg	180	2.83	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.80	0.283	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Vanadium, Total	14.2		mg/kg	0.898	0.182	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB
Zinc, Total	37.4		mg/kg	4.49	0.263	2	04/12/18 20:11	04/13/18 15:39	EPA 3050B	1,6010C	AB

General Chemistry - Mansfield Lab

Chromium, Trivalent	13		mg/kg	0.91	0.91	1		04/13/18 15:39	NA	107,-	
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Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10
 Client ID: RSDUP02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6510		mg/kg	9.24	2.50	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.62	0.351	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Arsenic, Total	2.25		mg/kg	0.924	0.192	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Barium, Total	30.2		mg/kg	0.924	0.161	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Beryllium, Total	0.212	J	mg/kg	0.462	0.031	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Cadmium, Total	0.323	J	mg/kg	0.924	0.091	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Calcium, Total	1280		mg/kg	9.24	3.23	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Chromium, Total	9.20		mg/kg	0.924	0.089	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Cobalt, Total	3.00		mg/kg	1.85	0.153	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Copper, Total	9.88		mg/kg	0.924	0.238	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Iron, Total	10100		mg/kg	4.62	0.834	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Lead, Total	57.4		mg/kg	4.62	0.248	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Magnesium, Total	1760		mg/kg	9.24	1.42	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Manganese, Total	76.4		mg/kg	0.924	0.147	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Mercury, Total	0.048	J	mg/kg	0.076	0.016	1	04/12/18 08:00	04/12/18 20:26	EPA 7471B	1,7471B	EA
Nickel, Total	6.80		mg/kg	2.31	0.224	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Potassium, Total	330		mg/kg	231	13.3	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Selenium, Total	0.989	J	mg/kg	1.85	0.238	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.924	0.262	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Sodium, Total	122	J	mg/kg	185	2.91	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.85	0.291	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Vanadium, Total	9.97		mg/kg	0.924	0.188	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
Zinc, Total	60.3		mg/kg	4.62	0.271	2	04/12/18 20:11	04/13/18 16:03	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.8	J	mg/kg	0.94	0.94	1		04/13/18 16:03	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
 Client ID: RSFB02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
 Date Received: 04/11/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.032	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Antimony, Total	ND		mg/l	0.050	0.007	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Arsenic, Total	ND		mg/l	0.005	0.002	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Barium, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Beryllium, Total	ND		mg/l	0.005	0.001	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.005	0.001	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Calcium, Total	0.082	J	mg/l	0.100	0.035	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Chromium, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Cobalt, Total	ND		mg/l	0.020	0.002	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Copper, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Iron, Total	ND		mg/l	0.050	0.009	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Lead, Total	ND		mg/l	0.010	0.003	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Magnesium, Total	ND		mg/l	0.100	0.015	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Manganese, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/12/18 11:04	04/12/18 21:29	EPA 7470A	1,7470A	EA
Nickel, Total	ND		mg/l	0.025	0.002	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Potassium, Total	ND		mg/l	2.50	0.237	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Selenium, Total	ND		mg/l	0.010	0.004	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.007	0.003	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Sodium, Total	0.336	J	mg/l	2.00	0.120	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Thallium, Total	ND		mg/l	0.020	0.003	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Vanadium, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
Zinc, Total	ND		mg/l	0.050	0.002	1	04/13/18 14:55	04/16/18 18:18	EPA 3005A	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		04/16/18 18:18	NA	107,-	



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1105757-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	04/12/18 08:00	04/12/18 19:50	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1105891-1									
Mercury, Total	ND	mg/l	0.00020	0.00006	1	04/12/18 11:04	04/12/18 21:05	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1106034-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Antimony, Total	ND	mg/kg	2.00	0.152	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Arsenic, Total	ND	mg/kg	0.400	0.083	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Barium, Total	ND	mg/kg	0.400	0.070	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Beryllium, Total	ND	mg/kg	0.200	0.013	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Cadmium, Total	ND	mg/kg	0.400	0.039	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Calcium, Total	ND	mg/kg	4.00	1.40	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Chromium, Total	ND	mg/kg	0.400	0.038	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Cobalt, Total	ND	mg/kg	0.800	0.066	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Copper, Total	ND	mg/kg	0.400	0.103	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Iron, Total	0.472	J mg/kg	2.00	0.361	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Magnesium, Total	ND	mg/kg	4.00	0.616	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Manganese, Total	ND	mg/kg	0.400	0.064	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Nickel, Total	ND	mg/kg	1.00	0.097	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Potassium, Total	ND	mg/kg	100	5.76	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Selenium, Total	ND	mg/kg	0.800	0.103	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Silver, Total	ND	mg/kg	0.400	0.113	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Sodium, Total	ND	mg/kg	80.0	1.26	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Thallium, Total	ND	mg/kg	0.800	0.126	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Vanadium, Total	ND	mg/kg	0.400	0.081	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB
Zinc, Total	ND	mg/kg	2.00	0.117	1	04/12/18 20:11	04/13/18 14:08	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1106333-1										
Aluminum, Total	ND		mg/l	0.100	0.032	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Antimony, Total	ND		mg/l	0.050	0.007	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Arsenic, Total	ND		mg/l	0.005	0.002	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Barium, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Beryllium, Total	ND		mg/l	0.005	0.001	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Cadmium, Total	ND		mg/l	0.005	0.001	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Calcium, Total	ND		mg/l	0.100	0.035	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Chromium, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Cobalt, Total	ND		mg/l	0.020	0.002	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Copper, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Iron, Total	0.009	J	mg/l	0.050	0.009	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Lead, Total	ND		mg/l	0.010	0.003	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Magnesium, Total	ND		mg/l	0.100	0.015	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Manganese, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Nickel, Total	ND		mg/l	0.025	0.002	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Potassium, Total	ND		mg/l	2.50	0.237	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Selenium, Total	ND		mg/l	0.010	0.004	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Silver, Total	ND		mg/l	0.007	0.003	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Sodium, Total	0.190	J	mg/l	2.00	0.120	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Thallium, Total	ND		mg/l	0.020	0.003	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Vanadium, Total	ND		mg/l	0.010	0.002	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB
Zinc, Total	ND		mg/l	0.050	0.002	1	04/13/18 14:55	04/16/18 18:08	1,6010C	AB

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1105757-2 SRM Lot Number: D098-540								
Mercury, Total	104		-		50-149	-		
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1105891-2								
Mercury, Total	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1106034-2 SRM Lot Number: D098-540					
Aluminum, Total	74	-	47-153	-	
Antimony, Total	156	-	6-194	-	
Arsenic, Total	107	-	83-117	-	
Barium, Total	88	-	82-118	-	
Beryllium, Total	93	-	83-117	-	
Cadmium, Total	99	-	82-117	-	
Calcium, Total	93	-	81-118	-	
Chromium, Total	100	-	83-119	-	
Cobalt, Total	98	-	84-116	-	
Copper, Total	98	-	84-116	-	
Iron, Total	99	-	60-140	-	
Lead, Total	101	-	82-117	-	
Magnesium, Total	86	-	76-124	-	
Manganese, Total	86	-	82-118	-	
Nickel, Total	97	-	82-117	-	
Potassium, Total	86	-	69-131	-	
Selenium, Total	102	-	78-121	-	
Silver, Total	107	-	80-120	-	
Sodium, Total	93	-	74-126	-	
Thallium, Total	101	-	80-119	-	
Vanadium, Total	99	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1106034-2 SRM Lot Number: D098-540					
Zinc, Total	100	-	81-119	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1106333-2					
Aluminum, Total	110	-	80-120	-	
Antimony, Total	100	-	80-120	-	
Arsenic, Total	110	-	80-120	-	
Barium, Total	105	-	80-120	-	
Beryllium, Total	102	-	80-120	-	
Cadmium, Total	107	-	80-120	-	
Calcium, Total	106	-	80-120	-	
Chromium, Total	104	-	80-120	-	
Cobalt, Total	105	-	80-120	-	
Copper, Total	104	-	80-120	-	
Iron, Total	102	-	80-120	-	
Lead, Total	107	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	92	-	80-120	-	
Nickel, Total	98	-	80-120	-	
Potassium, Total	105	-	80-120	-	
Selenium, Total	117	-	80-120	-	
Silver, Total	101	-	80-120	-	
Sodium, Total	102	-	80-120	-	
Thallium, Total	103	-	80-120	-	
Vanadium, Total	104	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1106333-2					
Zinc, Total	111	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1105757-3 WG1105757-4 QC Sample: L1812618-02 Client ID: RSB01_6-7												
Mercury, Total	ND	0.153	0.198	129	Q	0.192	126	Q	80-120	3		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1105891-3 QC Sample: L1812178-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00465	93		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1106034-3 WG1106034-4 QC Sample: L1812618-02 Client ID: RSB01_6-7											
Aluminum, Total	5840	185	7340	811	Q	7130	700	Q	75-125	3	20
Antimony, Total	ND	46.2	42.1	91		42.3	92		75-125	0	20
Arsenic, Total	0.958	11.1	12.4	103		12.2	102		75-125	2	20
Barium, Total	12.4	185	198	100		194	98		75-125	2	20
Beryllium, Total	0.123J	4.62	4.79	104		4.67	101		75-125	3	20
Cadmium, Total	0.237J	4.72	5.03	107		4.99	106		75-125	1	20
Calcium, Total	845.	925	1620	84		1600	82		75-125	1	20
Chromium, Total	17.0	18.5	39.5	122		39.2	120		75-125	1	20
Cobalt, Total	3.46	46.2	47.3	95		47.0	94		75-125	1	20
Copper, Total	9.59	23.1	36.3	116		35.7	113		75-125	2	20
Iron, Total	11400	92.5	13700	2490	Q	13200	1950	Q	75-125	4	20
Lead, Total	5.05	47.2	52.0	100		50.9	98		75-125	2	20
Magnesium, Total	2080	925	3400	143	Q	3390	142	Q	75-125	0	20
Manganese, Total	110.	46.2	149	84		142	69	Q	75-125	5	20
Nickel, Total	7.46	46.2	52.5	97		52.1	97		75-125	1	20
Potassium, Total	366.	925	1430	115		1400	112		75-125	2	20
Selenium, Total	0.474J	11.1	11.7	105		11.6	105		75-125	1	20
Silver, Total	ND	27.7	29.9	108		29.4	106		75-125	2	20
Sodium, Total	334.	925	1400	115		1400	116		75-125	0	20
Thallium, Total	ND	11.1	9.84	89		9.98	90		75-125	1	20
Vanadium, Total	10.4	46.2	60.8	109		59.6	107		75-125	2	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1106034-3 WG1106034-4 QC Sample: L1812618-02 Client ID: RSB01_6-7									
Zinc, Total	24.1	46.2	73.4	107	73.3	107	75-125	0	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1106333-3 QC Sample: L1812809-01 Client ID: MS Sample									
Aluminum, Total	9.35	2	11.8	122	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.470	94	-	-	75-125	-	20
Arsenic, Total	0.003J	0.12	0.128	107	-	-	75-125	-	20
Barium, Total	0.193	2	2.24	102	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.050	101	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.054	105	-	-	75-125	-	20
Calcium, Total	64.6	10	71.3	67	Q	-	75-125	-	20
Chromium, Total	0.032	0.2	0.234	101	-	-	75-125	-	20
Cobalt, Total	0.022	0.5	0.526	101	-	-	75-125	-	20
Copper, Total	0.124	0.25	0.380	102	-	-	75-125	-	20
Iron, Total	17.7	1	17.0	0	Q	-	75-125	-	20
Lead, Total	0.017	0.51	0.534	101	-	-	75-125	-	20
Magnesium, Total	11.4	10	19.8	84	-	-	75-125	-	20
Manganese, Total	2.07	0.5	2.40	66	Q	-	75-125	-	20
Nickel, Total	0.078	0.5	0.544	93	-	-	75-125	-	20
Potassium, Total	8.38	10	17.9	95	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.128	107	-	-	75-125	-	20
Silver, Total	ND	0.05	0.051	101	-	-	75-125	-	20
Sodium, Total	172.	10	169	0	Q	-	75-125	-	20
Thallium, Total	0.003J	0.12	0.112	93	-	-	75-125	-	20
Vanadium, Total	0.028	0.5	0.546	104	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1106333-3 QC Sample: L1812809-01 Client ID: MS Sample									
Zinc, Total	0.131	0.5	0.673	108	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1105891-4 QC Sample: L1812178-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1106333-4 QC Sample: L1812809-01 Client ID: DUP Sample						
Iron, Total	17.7	19.2	mg/l	8		20

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-01

Date Collected: 04/11/18 09:05

Client ID: RSB01_1-2

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3		%	0.100	NA	1	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	04/12/18 07:42	04/12/18 14:20	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.949	0.190	1	04/12/18 06:47	04/12/18 17:25	1,7196A	JD



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-02
Client ID: RSB01_6-7
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:12
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.1		%	0.100	NA	1	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/12/18 07:42	04/12/18 14:21	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.974	0.195	1	04/12/18 06:47	04/12/18 17:25	1,7196A	JD



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-03
Client ID: RSB01_10-11
Sample Location: MANHATTAN

Date Collected: 04/11/18 09:20
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/12/18 07:42	04/12/18 14:24	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.00	0.201	1	04/12/18 06:47	04/12/18 17:26	1,7196A	JD



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-04

Date Collected: 04/11/18 11:20

Client ID: RSB02_0-1

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

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	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.24	1	04/12/18 07:42	04/12/18 14:25	1,9010C/9012B	LH
Chromium, Hexavalent	0.443	J	mg/kg	0.932	0.186	1	04/12/18 06:47	04/12/18 17:26	1,7196A	JD



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-05
Client ID: RSB02_6-7
Sample Location: MANHATTAN

Date Collected: 04/11/18 11:26
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	04/12/18 07:42	04/12/18 14:26	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.03	0.207	1	04/12/18 06:47	04/12/18 17:27	1,7196A	JD



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-06

Client ID: RSB03_0-1

Sample Location: MANHATTAN

Date Collected: 04/11/18 10:24

Date Received: 04/11/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.7		%	0.100	NA	1	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	04/12/18 07:42	04/12/18 14:47	1,9010C/9012B	LH
Chromium, Hexavalent	0.171	J	mg/kg	0.854	0.171	1	04/12/18 06:47	04/12/18 17:27	1,7196A	JD



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-07
Client ID: RSB03_7-8
Sample Location: MANHATTAN

Date Collected: 04/11/18 10:01
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/12/18 07:42	04/12/18 14:48	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	04/12/18 06:47	04/12/18 17:28	1,7196A	JD



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-08

Client ID: RSB09_1-2

Sample Location: MANHATTAN

Date Collected: 04/11/18 12:09

Date Received: 04/11/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/12/18 07:42	04/12/18 14:49	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.893	0.178	1	04/12/18 06:47	04/12/18 17:28	1,7196A	JD



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-09
Client ID: RSB09_7-8
Sample Location: MANHATTAN

Date Collected: 04/11/18 12:17
Date Received: 04/11/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	04/12/18 07:42	04/12/18 14:50	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.913	0.183	1	04/12/18 06:47	04/12/18 17:29	1,7196A	JD



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-10

Client ID: RSBDUP02_041118

Sample Location: MANHATTAN

Date Collected: 04/11/18 00:00

Date Received: 04/11/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	04/12/18 15:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	04/12/18 07:42	04/12/18 14:51	1,9010C/9012B	LH
Chromium, Hexavalent	0.376	J	mg/kg	0.939	0.188	1	04/12/18 06:47	04/12/18 17:30	1,7196A	JD



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812618-11
 Client ID: RSFB02_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 15:45
 Date Received: 04/11/18
 Field Prep: Field Filtered
 (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/13/18 10:45	04/13/18 13:46	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/12/18 07:15	04/12/18 07:49	1,7196A	MA



Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1105761-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/12/18 06:47	04/12/18 17:30	1,7196A	JD
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1105765-1										
Cyanide, Total	ND		mg/kg	0.91	0.19	1	04/12/18 07:42	04/12/18 13:57	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1105807-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/12/18 07:15	04/12/18 07:44	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1106223-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/13/18 10:45	04/13/18 13:30	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1105761-2								
Chromium, Hexavalent	134	Q	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1105765-2 WG1105765-3								
Cyanide, Total	62	Q	66	Q	80-120	10		35
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1105807-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1106223-2 WG1106223-3								
Cyanide, Total	91		97		85-115	6		20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1105761-4 WG1105761-5 QC Sample: L1812618-02 Client ID: RSB01_6-7												
Chromium, Hexavalent	ND	1450	1560	108		1390	92		75-125	12		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1105765-4 WG1105765-5 QC Sample: L1812618-02 Client ID: RSB01_6-7												
Cyanide, Total	ND	11	11	96		11	98		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1105807-4 QC Sample: L1812331-12 Client ID: MS Sample												
Chromium, Hexavalent	ND	0.1	0.097	97		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1106223-4 WG1106223-5 QC Sample: L1812618-11 Client ID: RSFB02_041118												
Cyanide, Total	ND	0.2	0.202	101		0.196	98		80-120	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812618

Report Date: 04/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1105761-7 QC Sample: L1812618-02 Client ID: RSB01_6-7						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1105807-3 QC Sample: L1812331-12 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1105986-1 QC Sample: L1812618-02 Client ID: RSB01_6-7						
Solids, Total	82.1	82.3	%	0		20

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812618-01A	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-01B	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-01C	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-01D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1812618-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),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)
L1812618-01F	Glass 500ml/16oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-01X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-01Y	Vial Water preserved split	A	NA		4.9	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-01Z	Vial Water preserved split	A	NA		4.9	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-02A	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02A1	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02A2	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02B	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02B1	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02B2	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02C	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02C1	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)

Project Name: 4650 BROADWAY

Lab Number: L1812618

Project Number: 170505502

Report Date: 04/18/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812618-02C2	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02D	Plastic 2oz unpreserved for TS	B	NA		5.0	Y	Absent		TS(7)
L1812618-02D1	Plastic 2oz unpreserved for TS	B	NA		5.0	Y	Absent		TS(7)
L1812618-02D2	Plastic 2oz unpreserved for TS	B	NA		5.0	Y	Absent		TS(7)
L1812618-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.0	Y	Absent		BE-TI(180),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)
L1812618-02E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.0	Y	Absent		BE-TI(180),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)
L1812618-02E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.0	Y	Absent		BE-TI(180),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)
L1812618-02F	Glass 120ml/4oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-02F1	Glass 120ml/4oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-02F2	Glass 120ml/4oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-02G	Glass 500ml/16oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-02G1	Glass 500ml/16oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-02G2	Glass 500ml/16oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-02X	Vial MeOH preserved split	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02X1	Vial MeOH preserved split	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-02X2	Vial MeOH preserved split	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812618-02Y	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-02Y1	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-02Y2	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-02Z	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-02Z1	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-02Z2	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-03A	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-03B	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-03C	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-03D	Plastic 2oz unpreserved for TS	B	NA		5.0	Y	Absent		TS(7)
L1812618-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.0	Y	Absent		BE-TI(180),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)
L1812618-03F	Glass 120ml/4oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-03G	Glass 500ml/16oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-03X	Vial MeOH preserved split	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-03Y	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-03Z	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-04A	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-04B	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-04C	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-04D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1812618-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),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)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812618-04F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-04G	Glass 500ml/16oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-04X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-04Y	Vial Water preserved split	A	NA		4.9	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-04Z	Vial Water preserved split	A	NA		4.9	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-05A	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-05B	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-05C	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-05D	Plastic 2oz unpreserved for TS	B	NA		5.0	Y	Absent		TS(7)
L1812618-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.0	Y	Absent		BE-TI(180),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)
L1812618-05F	Glass 120ml/4oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-05G	Glass 500ml/16oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-05X	Vial MeOH preserved split	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-05Y	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-05Z	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-06A	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-06B	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-06C	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-06D	Plastic 2oz unpreserved for TS	B	NA		5.0	Y	Absent		TS(7)
L1812618-06E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.0	Y	Absent		BE-TI(180),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)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812618-06F	Glass 120ml/4oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-06G	Glass 500ml/16oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-06X	Vial MeOH preserved split	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-06Y	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-06Z	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-07A	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-07B	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-07C	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-07D	Plastic 2oz unpreserved for TS	B	NA		5.0	Y	Absent		TS(7)
L1812618-07E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.0	Y	Absent		BE-TI(180),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)
L1812618-07F	Glass 120ml/4oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-07G	Glass 500ml/16oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-07X	Vial MeOH preserved split	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-07Y	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-07Z	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-08A	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-08B	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-08C	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-08D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1812618-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),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)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812618-08F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-08G	Glass 500ml/16oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-08X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-08Y	Vial Water preserved split	A	NA		4.9	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-08Z	Vial Water preserved split	A	NA		4.9	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-09A	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-09B	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-09C	5 gram Encore Sampler	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-09D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1812618-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),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)
L1812618-09F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-09G	Glass 500ml/16oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-09X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1812618-09Y	Vial Water preserved split	A	NA		4.9	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-09Z	Vial Water preserved split	A	NA		4.9	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-10A	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-10B	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-10C	5 gram Encore Sampler	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-10D	Plastic 2oz unpreserved for TS	B	NA		5.0	Y	Absent		TS(7)
L1812618-10E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.0	Y	Absent		BE-TI(180),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)

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Project Number: 170505502

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812618-10F	Glass 120ml/4oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-10G	Glass 500ml/16oz unpreserved	B	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1812618-10X	Vial MeOH preserved split	B	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L1812618-10Y	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-10Z	Vial Water preserved split	B	NA		5.0	Y	Absent	12-APR-18 09:21	NYTCL-8260HLW(14)
L1812618-11A	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L1812618-11B	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L1812618-11C	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L1812618-11D	Plastic 250ml NaOH preserved	C	>12	>12	4.0	Y	Absent		TCN-9010(14)
L1812618-11E	Plastic 250ml HNO3 preserved	C	<2	<2	4.0	Y	Absent		HOLD-METAL-DISSOLVED(180)
L1812618-11F	Plastic 250ml HNO3 preserved	C	<2	<2	4.0	Y	Absent		BE-TI(180),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)
L1812618-11G	Plastic 500ml unpreserved	C	7	7	4.0	Y	Absent		HEXCR-7196(1)
L1812618-11H	Amber 500ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8081(7)
L1812618-11I	Amber 500ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8081(7)
L1812618-11J	Amber 500ml unpreserved	C	7	7	4.0	Y	Absent		HOLD-1,4DIOX(7)
L1812618-11K	Amber 500ml unpreserved	C	7	7	4.0	Y	Absent		HOLD-1,4DIOX(7)
L1812618-11L	Amber 1000ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1812618-11M	Amber 1000ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1812618-11N	Amber 1000ml unpreserved	C	7	7	4.0	Y	Absent		HERB-APA(7)
L1812618-11O	Amber 1000ml unpreserved	C	7	7	4.0	Y	Absent		HERB-APA(7)
L1812618-11P	Amber 1000ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8082-1200ML(7)
L1812618-11Q	Amber 1000ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8082-1200ML(7)
L1812618-12A	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L1812618-12B	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)

Project Name: 4650 BROADWAY

Project Number: 170505502

Serial_No:04181817:39

Lab Number: L1812618

Report Date: 04/18/18

Container Information

Container ID Container Type

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
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Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns has been reported 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812618
Report Date: 04/18/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 ALPHA <small>ANALYTICAL</small>	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1	Date Rec'd in Lab 4/11/18	ALPHA Job # L1812618							
			of 2									
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: 4650 Broadway Project Location: Manhattan Project # 170505502 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other								
Client Information Client: Langan Address: 360 W 31st St. 8th Fl Phone: 212 479-5400 Fax: bgochenaur@langan.com Email: aschmedicke@langan.com		Project Manager: Brian Gochenaur ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #								
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:								
Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)								
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	VOCs (Pt.375)	SVOCs PCBs	Pest/Herb	Metals (Tri/Hex/Chro)	Cyanide	Sample Specific Comments	Total Bottle
		Date	Time									
12618-01	RSB01-1-2	4/11/18	0905	SO	KG	x	x	x	x	x		
-02	RSB01-6-7	4/11/18	0912	SO	KG	x	x	x	x	x	MS/MSO	
-03	RSB01-10-11	4/11/18	0920	SO	KG	x	x	x	x	x		
-04	RSB02-0-1	4/11/18	1120	SO	KG	x	x	x	x	x		
-05	RSB02-6-7	4/11/18	1126	SO	KG	x	x	x	x	x		
-06	RSB03-0-1	4/11/18	1024	SO	KG	x	x	x	x	x		
-07	RSB03-7-8	4/11/18	1001	SO	KG	x	x	x	x	x		
-08	RSB09-1-2	4/11/18	1209	SO	KG	x	x	x	x	x		
-09	RSB09-7-8	4/11/18	1217	SO	KG	x	x	x	x	x		
-10	RSB09-04-11-18	4/11/18		SO	KG	x	x	x	x	x		
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)		
		Relinquished By: [Signature] Daniel Santos AAC		Date/Time 4/11/18 16:21 4/11/18 1910 4/11/18 2355		Received By: [Signature] Daniel Santos AAC [Signature]		Date/Time 4/11/18 1624 4/11/18 1920 4/11/18 2330				

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <u>2</u> of <u>2</u>	Date Rec'd in Lab <u>4/11/18</u>	ALPHA Job # <u>L1812618</u>	
		Project Information Project Name: <u>4650 Broadway</u> Project Location: <u>Manhattan</u> Project # <u>670505502</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #
Client Information Client: <u>Lorgan</u> Address: <u>360 W 31st St 8th Fl</u> <u>NY, NY 10001</u> Phone: <u>212 439 5400</u> Fax: Email: <u>aschmedick@lorgan.com</u>		Project Manager: <u>Brian Gocheraw</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)
Other project specific requirements/comments:				Please specify Metals or TAL.		Total Bottles
Please specify Metals or TAL.						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Matrix	Sampler's Initials		
		Date Time				
<u>12618-11</u>	<u>RSFB02-04118</u>	<u>4/11/18</u>		<u>KG</u>	<u>X</u>	<u>X</u>
<u>-12</u>	<u>RSBTB02-04118</u>	<u>4/11/18</u>		<u>KG</u>	<u>X</u>	<u>X</u>
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other				Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015
Relinquished By:				Date/Time		Received By:
Date/Time				Date/Time		Date/Time
<u>Jon Paudine</u>				<u>4/11/18 16:21</u>		<u>Jon Paudine AAL</u>
<u>Daniel Santos AAL</u>				<u>4/11/18 19:10</u>		<u>Daniel Santos AAL</u>
<u>4/11/18 2:55</u>				<u>4/11/18 19:30</u>		<u>4/11/18 6:23:30</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)



ANALYTICAL REPORT

Lab Number:	L1812657
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	04/18/18

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1812657-01	RSV07_041118	SOIL_VAPOR	MANHATTAN	04/11/18 10:05	04/11/18
L1812657-02	RSV08_041118	SOIL_VAPOR	MANHATTAN	04/11/18 09:50	04/11/18
L1812657-03	RSV04_041118	SOIL_VAPOR	MANHATTAN	04/11/18 09:37	04/11/18
L1812657-04	RSV06_041118	SOIL_VAPOR	MANHATTAN	04/11/18 10:34	04/11/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 6 and 11, 2018. The canister certification results are provided as an addendum.

The samples L1812657-02 through -04 in this job required a dilution greater than 4X; based on direction from the client the New York Decision Matrix Compounds have been reported by TO15-SIM for these samples.

L1812657-02, -03, and -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

L1812657-02, -03, and -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

The WG1106940-3 LCS recoveries for 1,2,4-trichlorobenzene (145%), 1,2,3-trichlorobenzene (131%) and hexachlorobutadiene (146%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/18/18

AIR

Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-01
 Client ID: RSV07_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:05
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/17/18 02:48
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.362	0.200	--	1.79	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	0.243	0.200	--	0.538	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	29.2	5.00	--	55.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	34.4	1.00	--	81.7	2.38	--		1
Trichlorofluoromethane	0.212	0.200	--	1.19	1.12	--		1
Isopropanol	2.63	0.500	--	6.46	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.971	0.500	--	2.94	1.52	--		1
Methylene chloride	1.88	0.500	--	6.53	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.27	0.200	--	3.95	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	0.306	0.200	--	1.10	0.721	--		1
2-Butanone	1.25	0.500	--	3.69	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-01
 Client ID: RSV07_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:05
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.812	0.200	--	3.97	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.06	0.200	--	3.74	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	3.49	0.200	--	11.1	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.357	0.200	--	1.23	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	0.734	0.200	--	3.43	0.934	--		1
Heptane	1.38	0.200	--	5.66	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	7.46	0.200	--	28.1	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	0.920	0.200	--	4.00	0.869	--		1



Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-01
 Client ID: RSV07_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:05
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.58	0.400	--	15.5	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	1.23	0.200	--	5.34	0.869	--		1
4-Ethyltoluene	0.260	0.200	--	1.28	0.983	--		1
1,3,5-Trimethylbenzene	0.214	0.200	--	1.05	0.983	--		1
1,2,4-Trimethylbenzene	0.904	0.200	--	4.44	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	71		60-140
Bromochloromethane	74		60-140
chlorobenzene-d5	82		60-140



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812657-02 D
 Client ID: RSV08_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:50
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/17/18 10:48
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	53.0	10.0	--	126	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	5.00	--	ND	14.7	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10



Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-02 D

Date Collected: 04/11/18 09:50

Client ID: RSV08_041118

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	2.09	2.00	--	8.57	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	4.77	2.00	--	18.0	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10



Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-02 D

Date Collected: 04/11/18 09:50

Client ID: RSV08_041118

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	5.31	4.00	--	23.1	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	2.76	2.00	--	12.0	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	3.51	2.00	--	17.3	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	72		60-140
Bromochloromethane	77		60-140
chlorobenzene-d5	77		60-140



Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-02 D

Date Collected: 04/11/18 09:50

Client ID: RSV08_041118

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/17/18 10:48

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		10
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		10
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		10
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		10
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		10
Trichloroethene	ND	0.200	--	ND	1.07	--		10
Tetrachloroethene	0.210	0.200	--	1.42	1.36	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	73		60-140
bromochloromethane	79		60-140
chlorobenzene-d5	80		60-140



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812657-03 D
 Client ID: RSV04_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:37
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/17/18 11:18
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	ND	1.00	--	ND	2.07	--		5
Freon-114	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	ND	1.00	--	ND	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethanol	ND	25.0	--	ND	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	31.3	5.00	--	74.4	11.9	--		5
Trichlorofluoromethane	ND	1.00	--	ND	5.62	--		5
Isopropanol	ND	2.50	--	ND	6.15	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
Tertiary butyl Alcohol	ND	2.50	--	ND	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	1.34	1.00	--	4.17	3.11	--		5
Freon-113	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	ND	2.50	--	ND	7.37	--		5
cis-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5



Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-03 D

Date Collected: 04/11/18 09:37

Client ID: RSV04_041118

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5
Chloroform	ND	1.00	--	ND	4.88	--		5
Tetrahydrofuran	ND	2.50	--	ND	7.37	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	ND	1.00	--	ND	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	ND	1.00	--	ND	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
Trichloroethene	ND	1.00	--	ND	5.37	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	ND	1.00	--	ND	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	1.96	1.00	--	7.39	3.77	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Tetrachloroethene	ND	1.00	--	ND	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	ND	1.00	--	ND	4.34	--		5



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812657-03 D
 Client ID: RSV04_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:37
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.88	2.00	--	16.9	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	2.24	1.00	--	9.73	4.34	--		5
4-Ethyltoluene	ND	1.00	--	ND	4.92	--		5
1,3,5-Trimethylbenzene	1.12	1.00	--	5.51	4.92	--		5
1,2,4-Trimethylbenzene	2.98	1.00	--	14.7	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	73		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	74		60-140



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812657-03 D
 Client ID: RSV04_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 09:37
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/17/18 11:18
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.100	--	ND	0.256	--		5
1,1-Dichloroethene	ND	0.100	--	ND	0.396	--		5
cis-1,2-Dichloroethene	ND	0.100	--	ND	0.396	--		5
1,1,1-Trichloroethane	ND	0.100	--	ND	0.546	--		5
Carbon tetrachloride	ND	0.100	--	ND	0.629	--		5
Trichloroethene	ND	0.100	--	ND	0.537	--		5
Tetrachloroethene	0.100	0.100	--	0.678	0.678	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	76		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	78		60-140



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

SAMPLE RESULTS

Lab ID: L1812657-04 D
 Client ID: RSV06_041118
 Sample Location: MANHATTAN

Date Collected: 04/11/18 10:34
 Date Received: 04/11/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/17/18 11:49
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	ND	1.00	--	ND	2.07	--		5
Freon-114	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	ND	1.00	--	ND	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethanol	ND	25.0	--	ND	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	ND	5.00	--	ND	11.9	--		5
Trichlorofluoromethane	ND	1.00	--	ND	5.62	--		5
Isopropanol	ND	2.50	--	ND	6.15	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
Tertiary butyl Alcohol	ND	2.50	--	ND	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	ND	1.00	--	ND	3.11	--		5
Freon-113	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	ND	2.50	--	ND	7.37	--		5
cis-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5



Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-04 D

Date Collected: 04/11/18 10:34

Client ID: RSV06_041118

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5
Chloroform	ND	1.00	--	ND	4.88	--		5
Tetrahydrofuran	ND	2.50	--	ND	7.37	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	ND	1.00	--	ND	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	ND	1.00	--	ND	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
Trichloroethene	ND	1.00	--	ND	5.37	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	ND	1.00	--	ND	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	ND	1.00	--	ND	3.77	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Tetrachloroethene	ND	1.00	--	ND	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	ND	1.00	--	ND	4.34	--		5



Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-04 D

Date Collected: 04/11/18 10:34

Client ID: RSV06_041118

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.24	2.00	--	9.73	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	1.40	1.00	--	6.08	4.34	--		5
4-Ethyltoluene	ND	1.00	--	ND	4.92	--		5
1,3,5-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
1,2,4-Trimethylbenzene	2.14	1.00	--	10.5	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	75		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	78		60-140



Project Name: 4650 BROADWAY**Lab Number:** L1812657**Project Number:** 170505502**Report Date:** 04/18/18**SAMPLE RESULTS**

Lab ID: L1812657-04 D

Date Collected: 04/11/18 10:34

Client ID: RSV06_041118

Date Received: 04/11/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/17/18 11:49

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.100	--	ND	0.256	--		5
1,1-Dichloroethene	ND	0.100	--	ND	0.396	--		5
cis-1,2-Dichloroethene	ND	0.100	--	ND	0.396	--		5
1,1,1-Trichloroethane	0.100	0.100	--	0.546	0.546	--		5
Carbon tetrachloride	ND	0.100	--	ND	0.629	--		5
Trichloroethene	ND	0.100	--	ND	0.537	--		5
Tetrachloroethene	0.835	0.100	--	5.66	0.678	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	75		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	83		60-140



Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/16/18 15:12

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: WG1106940-4								
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	5.00	--	ND	9.42	--		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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/16/18 15:12

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: WG1106940-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	2.05	--		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



Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/16/18 15:12

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: WG1106940-4								
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
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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds



Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02-04 Batch: WG1107528-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1

Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02-04 Batch: WG1107528-4								
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		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
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
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
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	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
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02-04 Batch: WG1107528-4								
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		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
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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



Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/16/18 15:12

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02-04 Batch: WG1107528-4								
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1106940-3								
Chlorodifluoromethane	87		-		70-130	-		
Propylene	100		-		70-130	-		
Propane	82		-		70-130	-		
Dichlorodifluoromethane	93		-		70-130	-		
Chloromethane	95		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	104		-		70-130	-		
Methanol	97		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	106		-		70-130	-		
Butane	83		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	95		-		70-130	-		
Ethyl Alcohol	105		-		70-130	-		
Dichlorofluoromethane	98		-		70-130	-		
Vinyl bromide	100		-		70-130	-		
Acrolein	86		-		70-130	-		
Acetone	125		-		70-130	-		
Acetonitrile	91		-		70-130	-		
Trichlorofluoromethane	106		-		70-130	-		
iso-Propyl Alcohol	89		-		70-130	-		
Acrylonitrile	93		-		70-130	-		
Pentane	88		-		70-130	-		
Ethyl ether	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812657

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1106940-3								
1,1-Dichloroethene	97		-		70-130	-		
tert-Butyl Alcohol	92		-		70-130	-		
Methylene chloride	107		-		70-130	-		
3-Chloropropene	103		-		70-130	-		
Carbon disulfide	100		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	86		-		70-130	-		
Vinyl acetate	102		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	87		-		70-130	-		
Ethyl Acetate	100		-		70-130	-		
Chloroform	99		-		70-130	-		
Tetrahydrofuran	88		-		70-130	-		
2,2-Dichloropropane	87		-		70-130	-		
1,2-Dichloroethane	95		-		70-130	-		
n-Hexane	97		-		70-130	-		
Isopropyl Ether	89		-		70-130	-		
Ethyl-Tert-Butyl-Ether	81		-		70-130	-		
1,1,1-Trichloroethane	101		-		70-130	-		
1,1-Dichloropropene	85		-		70-130	-		
Benzene	91		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1106940-3								
Carbon tetrachloride	109		-		70-130	-		
Cyclohexane	94		-		70-130	-		
Tertiary-Amyl Methyl Ether	84		-		70-130	-		
Dibromomethane	98		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	111		-		70-130	-		
1,4-Dioxane	106		-		70-130	-		
Trichloroethene	105		-		70-130	-		
2,2,4-Trimethylpentane	107		-		70-130	-		
Methyl Methacrylate	116		-		70-130	-		
Heptane	101		-		70-130	-		
cis-1,3-Dichloropropene	95		-		70-130	-		
4-Methyl-2-pentanone	107		-		70-130	-		
trans-1,3-Dichloropropene	84		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	98		-		70-130	-		
1,3-Dichloropropane	92		-		70-130	-		
2-Hexanone	114		-		70-130	-		
Dibromochloromethane	119		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		
Butyl Acetate	84		-		70-130	-		
Octane	89		-		70-130	-		
Tetrachloroethene	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1106940-3								
1,1,1,2-Tetrachloroethane	102		-		70-130	-		
Chlorobenzene	100		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	101		-		70-130	-		
Bromoform	125		-		70-130	-		
Styrene	96		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	102		-		70-130	-		
1,2,3-Trichloropropane	99		-		70-130	-		
Nonane (C9)	99		-		70-130	-		
Isopropylbenzene	98		-		70-130	-		
Bromobenzene	97		-		70-130	-		
o-Chlorotoluene	97		-		70-130	-		
n-Propylbenzene	100		-		70-130	-		
p-Chlorotoluene	98		-		70-130	-		
4-Ethyltoluene	114		-		70-130	-		
1,3,5-Trimethylbenzene	104		-		70-130	-		
tert-Butylbenzene	107		-		70-130	-		
1,2,4-Trimethylbenzene	115		-		70-130	-		
Decane (C10)	102		-		70-130	-		
Benzyl chloride	124		-		70-130	-		
1,3-Dichlorobenzene	118		-		70-130	-		
1,4-Dichlorobenzene	115		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812657

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1106940-3								
sec-Butylbenzene	104		-		70-130	-		
p-Isopropyltoluene	103		-		70-130	-		
1,2-Dichlorobenzene	115		-		70-130	-		
n-Butylbenzene	110		-		70-130	-		
1,2-Dibromo-3-chloropropane	114		-		70-130	-		
Undecane	112		-		70-130	-		
Dodecane (C12)	132	Q	-		70-130	-		
1,2,4-Trichlorobenzene	145	Q	-		70-130	-		
Naphthalene	118		-		70-130	-		
1,2,3-Trichlorobenzene	131	Q	-		70-130	-		
Hexachlorobutadiene	146	Q	-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02-04 Batch: WG1107528-3								
Propylene	77		-		70-130	-		25
Dichlorodifluoromethane	106		-		70-130	-		25
Chloromethane	83		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	100		-		70-130	-		25
Vinyl chloride	91		-		70-130	-		25
1,3-Butadiene	96		-		70-130	-		25
Bromomethane	100		-		70-130	-		25
Chloroethane	87		-		70-130	-		25
Ethyl Alcohol	93		-		70-130	-		25
Vinyl bromide	101		-		70-130	-		25
Acetone	118		-		70-130	-		25
Trichlorofluoromethane	106		-		70-130	-		25
iso-Propyl Alcohol	93		-		70-130	-		25
Acrylonitrile	84		-		70-130	-		25
1,1-Dichloroethene	96		-		70-130	-		25
tert-Butyl Alcohol ¹	87		-		70-130	-		25
Methylene chloride	106		-		70-130	-		25
3-Chloropropene	106		-		70-130	-		25
Carbon disulfide	97		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		-		70-130	-		25
trans-1,2-Dichloroethene	87		-		70-130	-		25
1,1-Dichloroethane	90		-		70-130	-		25
Methyl tert butyl ether	77		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02-04 Batch: WG1107528-3								
Vinyl acetate	95		-		70-130	-		25
2-Butanone	91		-		70-130	-		25
cis-1,2-Dichloroethene	83		-		70-130	-		25
Ethyl Acetate	97		-		70-130	-		25
Chloroform	98		-		70-130	-		25
Tetrahydrofuran	84		-		70-130	-		25
1,2-Dichloroethane	93		-		70-130	-		25
n-Hexane	92		-		70-130	-		25
1,1,1-Trichloroethane	102		-		70-130	-		25
Benzene	89		-		70-130	-		25
Carbon tetrachloride	107		-		70-130	-		25
Cyclohexane	89		-		70-130	-		25
Dibromomethane ¹	88		-		70-130	-		25
1,2-Dichloropropane	95		-		70-130	-		25
Bromodichloromethane	106		-		70-130	-		25
1,4-Dioxane	96		-		70-130	-		25
Trichloroethene	95		-		70-130	-		25
2,2,4-Trimethylpentane	96		-		70-130	-		25
cis-1,3-Dichloropropene	91		-		70-130	-		25
4-Methyl-2-pentanone	114		-		70-130	-		25
trans-1,3-Dichloropropene	80		-		70-130	-		25
1,1,2-Trichloroethane	99		-		70-130	-		25
Toluene	95		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02-04 Batch: WG1107528-3								
2-Hexanone	119		-		70-130	-		25
Dibromochloromethane	127		-		70-130	-		25
1,2-Dibromoethane	108		-		70-130	-		25
Tetrachloroethene	107		-		70-130	-		25
1,1,1,2-Tetrachloroethane	105		-		70-130	-		25
Chlorobenzene	105		-		70-130	-		25
Ethylbenzene	93		-		70-130	-		25
p/m-Xylene	102		-		70-130	-		25
Bromoform	130		-		70-130	-		25
Styrene	98		-		70-130	-		25
1,1,2,2-Tetrachloroethane	115		-		70-130	-		25
o-Xylene	102		-		70-130	-		25
1,2,3-Trichloropropane ¹	105		-		70-130	-		25
Isopropylbenzene	96		-		70-130	-		25
Bromobenzene ¹	99		-		70-130	-		25
4-Ethyltoluene	118		-		70-130	-		25
1,3,5-Trimethylbenzene	109		-		70-130	-		25
1,2,4-Trimethylbenzene	118		-		70-130	-		25
Benzyl chloride	123		-		70-130	-		25
1,3-Dichlorobenzene	123		-		70-130	-		25
1,4-Dichlorobenzene	122		-		70-130	-		25
sec-Butylbenzene	109		-		70-130	-		25
p-Isopropyltoluene	93		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812657

Report Date: 04/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02-04 Batch: WG1107528-3								
1,2-Dichlorobenzene	124		-		70-130	-		25
n-Butylbenzene	118		-		70-130	-		25
1,2,4-Trichlorobenzene	151	Q	-		70-130	-		25
Naphthalene	117		-		70-130	-		25
1,2,3-Trichlorobenzene	145	Q	-		70-130	-		25
Hexachlorobutadiene	152	Q	-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812657

Report Date: 04/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1106940-5 QC Sample: L1813082-02 Client ID: DUP Sample						
Dichlorodifluoromethane	29.7	25.1	ppbV	17		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	0.235	0.229	ppbV	3		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	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	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: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812657

Report Date: 04/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1106940-5 QC Sample: L1813082-02 Client ID: DUP Sample						
2-Butanone	0.570	0.558	ppbV	2		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	2.70	2.64	ppbV	2		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.601	0.545	ppbV	10		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	0.857	0.877	ppbV	2		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	0.218	0.223	ppbV	2		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	2.03	1.87	ppbV	8		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812657

Report Date: 04/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1106940-5 QC Sample: L1813082-02 Client ID: DUP Sample						
Toluene	1.73	1.57	ppbV	10		25
2-Hexanone	0.523	0.502	ppbV	4		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	0.337	0.318	ppbV	6		25
p/m-Xylene	1.98	1.75	ppbV	12		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	0.626	0.567	ppbV	10		25
4-Ethyltoluene	0.223	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	0.260	0.231	ppbV	12		25
1,2,4-Trimethylbenzene	0.917	0.903	ppbV	2		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	0.246	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812657

Report Date: 04/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1107528-5 QC Sample: L1800004-107 Client ID: DUP Sample						
Vinyl chloride	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Acetone	17.6	18.5	ppbV	5		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	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
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	0.048	0.048	ppbV	0		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.192	0.187	ppbV	3		25
Carbon tetrachloride	0.087	0.092	ppbV	6		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1812657

Report Date: 04/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1107528-5 QC Sample: L1800004-107 Client ID: DUP Sample						
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.565	0.611	ppbV	8		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.193	0.214	ppbV	10		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.074	0.074	ppbV	0		25
p/m-Xylene	0.218	0.234	ppbV	7		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	0.074	0.084	ppbV	13		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

Project Name: 4650 BROADWAY

Serial_No:04181815:10
Lab Number: L1812657

Project Number: 170505502

Report Date: 04/18/18

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
L1812657-01	RSV07_041118	0593	Flow 3	04/06/18	262856		-	-	-	Pass	17.9	18.1	1
L1812657-01	RSV07_041118	2311	2.7L Can	04/06/18	262856	L1811545-01	Pass	-30.0	-5.3	-	-	-	-
L1812657-02	RSV08_041118	0422	Flow 3	04/06/18	262856		-	-	-	Pass	18.0	18.1	1
L1812657-02	RSV08_041118	502	2.7L Can	04/06/18	262856	L1811366-01	Pass	-30.0	-4.2	-	-	-	-
L1812657-03	RSV04_041118	0745	#30 SV	04/06/18	262856		-	-	-	Pass	18.0	18.6	3
L1812657-03	RSV04_041118	2358	2.7L Can	04/06/18	262856	L1811545-01	Pass	-29.2	-3.8	-	-	-	-
L1812657-04	RSV06_041118	0809	Flow 4	04/11/18	263247		-	-	-	Pass	18.0	18.7	4
L1812657-04	RSV06_041118	178	2.7L Can	04/11/18	263247	L1812049-02	Pass	-30.0	-3.9	-	-	-	-

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

Lab Number: L1811366
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/03/18 18:07
 Analyst: MB

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	0.500	--	ND	0.902	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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

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

Lab Number: L1811366
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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



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

Lab Number: L1811366
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
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	0.500	--	ND	2.05	--		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



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

Lab Number: L1811366
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
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



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

Lab Number: L1811366
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140



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

Lab Number: L1811366
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811366-01
Client ID: CAN 2392 SHELF 2
Sample Location:

Date Collected: 04/02/18 09:00
Date Received: 04/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/03/18 18:07
Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		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	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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: L1811366
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



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

Lab Number: L1811366
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811366-01
 Client ID: CAN 2392 SHELF 2
 Sample Location:

Date Collected: 04/02/18 09:00
 Date Received: 04/03/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	93		60-140

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

Lab Number: L1811545
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/04/18 22:08
 Analyst: MB

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	0.500	--	ND	0.902	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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



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

Lab Number: L1811545
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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



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

Lab Number: L1811545
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
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	0.500	--	ND	2.05	--		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



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

Lab Number: L1811545
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
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



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

Lab Number: L1811545
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	80		60-140



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

Lab Number: L1811545
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/04/18 22:08
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		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	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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: L1811545
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



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

Lab Number: L1811545
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1811545-01
 Client ID: CAN 384 SHELF 3
 Sample Location:

Date Collected: 04/03/18 16:00
 Date Received: 04/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	79		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	80		60-140

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

Lab Number: L1812049
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1812049-02
 Client ID: CAN 550 SHELF 2
 Sample Location:

Date Collected: 04/06/18 16:00
 Date Received: 04/07/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/07/18 23:34
 Analyst: MB

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	0.500	--	ND	0.902	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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

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

Lab Number: L1812049
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1812049-02
 Client ID: CAN 550 SHELF 2
 Sample Location:

Date Collected: 04/06/18 16:00
 Date Received: 04/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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



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

Lab Number: L1812049
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1812049-02
 Client ID: CAN 550 SHELF 2
 Sample Location:

Date Collected: 04/06/18 16:00
 Date Received: 04/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
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	0.500	--	ND	2.05	--		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



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

Lab Number: L1812049
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1812049-02
 Client ID: CAN 550 SHELF 2
 Sample Location:

Date Collected: 04/06/18 16:00
 Date Received: 04/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
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



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

Lab Number: L1812049
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1812049-02
 Client ID: CAN 550 SHELF 2
 Sample Location:

Date Collected: 04/06/18 16:00
 Date Received: 04/07/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	86		60-140



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

Lab Number: L1812049
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1812049-02
 Client ID: CAN 550 SHELF 2
 Sample Location:

Date Collected: 04/06/18 16:00
 Date Received: 04/07/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/07/18 23:34
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		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	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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: L1812049
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1812049-02
 Client ID: CAN 550 SHELF 2
 Sample Location:

Date Collected: 04/06/18 16:00
 Date Received: 04/07/18
 Field Prep: Not Specified

Sample Depth:

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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



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

Lab Number: L1812049
Report Date: 04/18/18

Air Canister Certification Results

Lab ID: L1812049-02
 Client ID: CAN 550 SHELF 2
 Sample Location:

Date Collected: 04/06/18 16:00
 Date Received: 04/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	91		60-140
chlorobenzene-d5	87		60-140

Project Name: 4650 BROADWAY

Project Number: 170505502

Serial_No:04181815:10

Lab Number: L1812657

Report Date: 04/18/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**

N/A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812657-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1812657-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1812657-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1812657-04A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns has been reported 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.
- S** - Analytical results are from modified screening analysis.
- 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: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1812657
Report Date: 04/18/18

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Langan
 Address: 360 W 31st St Bth Fl
 Phone: 212 477-5400
 Fax:
 Email: aschmidicke@langan.com

Project Information

Project Name: 4650 Broadway
 Project Location: Manhattan
 Project #: 170505502
 Project Manager: Brian Gocheraw
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: _____ Time: _____

Date Rec'd in Lab: 4/12/18

Report Information - Data Deliverables

FAX
 ADEx
 Criteria Checker: _____
 (Default based on Regulatory Criteria Indicated)
 Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:
 Report to: (if different than Project Manager)

ALPHA Job #: 4812657

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS				Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	TO-15						TO-15 SIM	APH <small>Subject Non-petroleum HCs</small>	Fixed Gases	Sulfides & Mercaptans by TO-15	
12657.01	RSV07_041118	4/11/18	0805	1005	-29.97	-6.40	SV	KG	27	2311	593	X					
.02	RSV08_041118	4/11/18	0750	0950	-30.07	-5.50	SV	KG	27	502	422	X					
.03	RSV04_041118	4/11/18	0737	0937	-29.98	-5.20	SV	KG	27	2358	745	X					
.04	RSV06_041118	4/11/18	0834	1034	-30.57	-5.47	SV	KG	27	178	0809	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Jan Pauline</u>	<u>4/11/18 16:21</u>	<u>Jan Pauline</u>	<u>4/11/18 16:22</u>
<u>Daniel Santos</u>	<u>4/11/18 19:10</u>	<u>Daniel Santos</u>	<u>4/11/18 19:20</u>
<u>[Signature]</u>	<u>4/12/18 0530</u>	<u>[Signature]</u>	<u>4/12/18 0530</u>
<u>[Signature]</u>	<u>4/12/18 0530</u>	<u>[Signature]</u>	<u>4/12/18 0530</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L1813566
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	04/25/18

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1813566-01	RMW02_041818	WATER	NEW YORK, NY	04/18/18 10:00	04/18/18
L1813566-02	RMW03_041818	WATER	NEW YORK, NY	04/18/18 15:25	04/18/18
L1813566-03	RMW04_041818	WATER	NEW YORK, NY	04/18/18 12:25	04/18/18
L1813566-04	RGWDUP01_041818	WATER	NEW YORK, NY	04/18/18 11:11	04/18/18
L1813566-05	RGWFB01_041818	WATER	NEW YORK, NY	04/18/18 14:15	04/18/18
L1813566-06	RGWTB01_041818	WATER	NEW YORK, NY	04/18/18 00:00	04/18/18
L1813566-07	RMW03_041818	WATER	NEW YORK, NY	04/19/18 15:25	04/19/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Case Narrative (continued)

Report Revision

April 25, 2018: The project number has been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1813566-03: The sample has elevated detection limits due to the dilution required by the sample matrix (oily, foamy).

L1813566-05: The Field Blank has a result for acetone present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

Semivolatile Organics

The WG1108667-2/-3 LCS/LCSD recoveries, associated with L1813566-01, -03, -04, and -05, are below the acceptance criteria for benzoic acid (6%/7%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Semivolatile Organics by SIM

L1813566-02: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), and 2,4,6-tribromophenol (0%); however, re-extraction achieved similar results: 2-fluorophenol (14%) and phenol-d6 (9%). The results of both extractions are reported.

Perfluorinated Alkyl Acids by Isotope Dilution

The Extracted Internal Standard recoveries for the following samples were outside the acceptance criteria:

L1813566-01: perfluoro[13c8]octanesulfonamide (m8fosa) (39%)

L1813566-03: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (183%); n-

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Lab Number: L1813566
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Case Narrative (continued)

deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (203%); and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (323%)

L1813566-04: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (176%) and perfluoro[13c8]octanesulfonamide (m8fosa) (18%)

L1813566-07: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (263%); 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (202%); n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (38%); and perfluoro[13c8]octanesulfonamide (m8fosa) (6%)

WG1108323-1: 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (158%); perfluoro[13c8]octanesulfonamide (m8fosa) (23%); and n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (151%)

WG1108323-2: perfluoro[13c8]octanesulfonamide (m8fosa) (20%)

WG1108323-3: perfluoro[13c8]octanesulfonamide (m8fosa) (16%)

WG1108323-4: perfluoro[13c8]octanesulfonamide (m8fosa) (47%)

WG1108323-5: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (198%); n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (203%); and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (357%)

Total Metals

The WG1108284-3 MS recoveries for aluminum (680%), calcium (210%), iron (1100%), magnesium (178%), manganese (156%), and sodium (0%), performed on L1813566-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1108284-3 MS recoveries, performed on L1813566-01, are outside the acceptance criteria for antimony (48%), copper (127%), and selenium (67%). A post digestion spike was performed and was within acceptance criteria.

The WG1108284-3 MS recovery, performed on L1813566-01, is outside the acceptance criteria for zinc (138%). A post digestion spike was performed and yielded an unacceptable recovery of 136%. This has been attributed to sample matrix.

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Case Narrative (continued)

Dissolved Metals

L1813566-02: Dissolved results are greater than Total results. The sample containers were verified as being labeled correctly by the laboratory.

L1813566-05: The Field Blank has a result for sodium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1108378-2 LCS recovery, associated with L1813566-01 through -05, is above the acceptance criteria for selenium (124%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

The WG1108378-3 MS recoveries for calcium (0%) and sodium (0%), performed on L1813566-01, do not apply because the sample concentrations are greater than four times the spike amounts 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:

 Amita Naik

Title: Technical Director/Representative

Date: 04/25/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
Client ID: RMW02_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/20/18 13:57
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	18		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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
 Client ID: RMW02_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	58		ug/l	2.5	0.70	1
o-Xylene	6.5		ug/l	2.5	0.70	1
Xylenes, Total	65		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	36		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	15		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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	1.6	J	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	5.5		ug/l	2.5	0.70	1
p-Isopropyltoluene	0.76	J	ug/l	2.5	0.70	1
Naphthalene	8.9		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
Client ID: RMW02_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	8.6		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	26		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	32		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	46		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	3.0		ug/l	2.0	0.54	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	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	90		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02 D
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/20/18 14:30
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	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	1.3	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
1,3-Dichloropropene, Total	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	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	43		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	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02 D

Date Collected: 04/18/18 15:25

Client ID: RMW03_041818

Date Received: 04/18/18

Sample Location: NEW YORK, NY

Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	5.0	1.8	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
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	320		ug/l	25	7.0	10
o-Xylene	100		ug/l	25	7.0	10
Xylenes, Total	420		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
1,2-Dichloroethene, Total	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	28	J	ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	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	17	J	ug/l	25	7.0	10
sec-Butylbenzene	ND		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	21	J	ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	73		ug/l	25	7.0	10

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02 D
Client ID: RMW03_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	58		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	200		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	630		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	ND		ug/l	20	7.0	10
p-Ethyltoluene	430		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	38		ug/l	20	5.4	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	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	95		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03 D
 Client ID: RMW04_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/22/18 09:43
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	13		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	ND		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
1,3-Dichloropropene, Total	ND		ug/l	1.2	0.36	2.5
1,1-Dichloropropene	ND		ug/l	6.2	1.8	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	0.45	J	ug/l	1.2	0.40	2.5
Toluene	2.4	J	ug/l	6.2	1.8	2.5
Ethylbenzene	7.4		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	ND		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03 D

Date Collected: 04/18/18 12:25

Client ID: RMW04_041818

Date Received: 04/18/18

Sample Location: NEW YORK, NY

Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	23		ug/l	6.2	1.8	2.5
o-Xylene	14		ug/l	6.2	1.8	2.5
Xylenes, Total	37		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethene, Total	ND		ug/l	6.2	1.8	2.5
Dibromomethane	ND		ug/l	12	2.5	2.5
1,2,3-Trichloropropane	ND		ug/l	6.2	1.8	2.5
Acrylonitrile	ND		ug/l	12	3.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	ND		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
Vinyl acetate	ND		ug/l	12	2.5	2.5
4-Methyl-2-pentanone	4.8	J	ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
2,2-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,3-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	6.2	1.8	2.5
Bromobenzene	ND		ug/l	6.2	1.8	2.5
n-Butylbenzene	11		ug/l	6.2	1.8	2.5
sec-Butylbenzene	16		ug/l	6.2	1.8	2.5
tert-Butylbenzene	ND		ug/l	6.2	1.8	2.5
o-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
p-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Hexachlorobutadiene	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	4.3	J	ug/l	6.2	1.8	2.5
p-Isopropyltoluene	7.4		ug/l	6.2	1.8	2.5
Naphthalene	7.8		ug/l	6.2	1.8	2.5

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03 D
 Client ID: RMW04_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	17		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3,5-Trimethylbenzene	45		ug/l	6.2	1.8	2.5
1,2,4-Trimethylbenzene	96		ug/l	6.2	1.8	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
p-Diethylbenzene	250		ug/l	5.0	1.8	2.5
p-Ethyltoluene	29		ug/l	5.0	1.8	2.5
1,2,4,5-Tetramethylbenzene	88		ug/l	5.0	1.4	2.5
Ethyl ether	ND		ug/l	6.2	1.8	2.5
trans-1,4-Dichloro-2-butene	ND		ug/l	6.2	1.8	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	93		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1813566**Project Number:** 170505502**Report Date:** 04/25/18**SAMPLE RESULTS**

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/20/18 13:23
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	5.4		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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	29		ug/l	2.5	0.70	1
o-Xylene	4.2		ug/l	2.5	0.70	1
Xylenes, Total	33		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	16		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	17		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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	0.86	J	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	2.2	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	3.2		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	3.0		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	9.6		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	11		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	17		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	1.4	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
Client ID: RGWFB01_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/23/18 20:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	7.7		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
Client ID: RGWFB01_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	94		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-06
 Client ID: RGWTB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 00:00
 Date Received: 04/18/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/20/18 12:50
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-06
 Client ID: RGWTB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 00:00
 Date Received: 04/18/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-06
 Client ID: RGWTB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 00:00
 Date Received: 04/18/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	94		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	98		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/20/18 08:57
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04,06 Batch: WG1108800-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/20/18 08:57
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04,06 Batch: WG1108800-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/20/18 08:57
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04,06 Batch: WG1108800-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	93		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/22/18 09:14
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1108906-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.18	J	ug/l	0.50	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/22/18 09:14
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1108906-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/22/18 09:14
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1108906-5					
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	0.72	J	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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	103		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/23/18 20:28
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1109289-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/23/18 20:28
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1109289-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/23/18 20:28
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1109289-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/23/18 20:28
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1109289-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,06 Batch: WG1108800-3 WG1108800-4								
Methylene chloride	95		93		70-130	2		20
1,1-Dichloroethane	87		86		70-130	1		20
Chloroform	87		86		70-130	1		20
Carbon tetrachloride	88		88		63-132	0		20
1,2-Dichloropropane	86		88		70-130	2		20
Dibromochloromethane	90		90		63-130	0		20
1,1,2-Trichloroethane	90		88		70-130	2		20
Tetrachloroethene	94		90		70-130	4		20
Chlorobenzene	91		90		75-130	1		20
Trichlorofluoromethane	94		93		62-150	1		20
1,2-Dichloroethane	85		84		70-130	1		20
1,1,1-Trichloroethane	88		89		67-130	1		20
Bromodichloromethane	85		86		67-130	1		20
trans-1,3-Dichloropropene	91		89		70-130	2		20
cis-1,3-Dichloropropene	87		88		70-130	1		20
1,1-Dichloropropene	86		88		70-130	2		20
Bromoform	95		89		54-136	7		20
1,1,2,2-Tetrachloroethane	92		88		67-130	4		20
Benzene	81		83		70-130	2		20
Toluene	88		90		70-130	2		20
Ethylbenzene	93		92		70-130	1		20
Chloromethane	80		82		64-130	2		20
Bromomethane	68		80		39-139	16		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,06 Batch: WG1108800-3 WG1108800-4								
Vinyl chloride	89		92		55-140	3		20
Chloroethane	99		97		55-138	2		20
1,1-Dichloroethene	90		93		61-145	3		20
trans-1,2-Dichloroethene	87		88		70-130	1		20
Trichloroethene	87		90		70-130	3		20
1,2-Dichlorobenzene	93		96		70-130	3		20
1,3-Dichlorobenzene	96		95		70-130	1		20
1,4-Dichlorobenzene	93		95		70-130	2		20
Methyl tert butyl ether	92		87		63-130	6		20
p/m-Xylene	110		95		70-130	15		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	88		87		70-130	1		20
Dibromomethane	87		87		70-130	0		20
1,2,3-Trichloropropane	93		90		64-130	3		20
Acrylonitrile	96		88		70-130	9		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	98		96		36-147	2		20
Acetone	130		96		58-148	30	Q	20
Carbon disulfide	89		90		51-130	1		20
2-Butanone	100		85		63-138	16		20
Vinyl acetate	89		87		70-130	2		20
4-Methyl-2-pentanone	96		88		59-130	9		20
2-Hexanone	98		85		57-130	14		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,06 Batch: WG1108800-3 WG1108800-4								
Bromochloromethane	89		88		70-130	1		20
2,2-Dichloropropane	93		96		63-133	3		20
1,2-Dibromoethane	90		87		70-130	3		20
1,3-Dichloropropane	92		88		70-130	4		20
1,1,1,2-Tetrachloroethane	91		90		64-130	1		20
Bromobenzene	96		96		70-130	0		20
n-Butylbenzene	84		85		53-136	1		20
sec-Butylbenzene	96		96		70-130	0		20
tert-Butylbenzene	96		94		70-130	2		20
o-Chlorotoluene	91		93		70-130	2		20
p-Chlorotoluene	94		94		70-130	0		20
1,2-Dibromo-3-chloropropane	91		86		41-144	6		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	95		96		70-130	1		20
p-Isopropyltoluene	93		92		70-130	1		20
Naphthalene	84		90		70-130	7		20
n-Propylbenzene	94		94		69-130	0		20
1,2,3-Trichlorobenzene	84		89		70-130	6		20
1,2,4-Trichlorobenzene	85		90		70-130	6		20
1,3,5-Trimethylbenzene	89		94		64-130	5		20
1,2,4-Trimethylbenzene	86		91		70-130	6		20
1,4-Dioxane	106		92		56-162	14		20
p-Diethylbenzene	90		89		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,06 Batch: WG1108800-3 WG1108800-4								
p-Ethyltoluene	92		94		70-130	2		20
1,2,4,5-Tetramethylbenzene	85		92		70-130	8		20
Ethyl ether	84		84		59-134	0		20
trans-1,4-Dichloro-2-butene	99		89		70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		95		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	98		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1108906-3 WG1108906-4								
Methylene chloride	88		92		70-130	4		20
1,1-Dichloroethane	91		97		70-130	6		20
Chloroform	87		91		70-130	4		20
Carbon tetrachloride	88		94		63-132	7		20
1,2-Dichloropropane	91		96		70-130	5		20
Dibromochloromethane	93		94		63-130	1		20
1,1,2-Trichloroethane	93		96		70-130	3		20
Tetrachloroethene	93		99		70-130	6		20
Chlorobenzene	92		96		75-130	4		20
Trichlorofluoromethane	96		100		62-150	4		20
1,2-Dichloroethane	96		98		70-130	2		20
1,1,1-Trichloroethane	90		96		67-130	6		20
Bromodichloromethane	86		91		67-130	6		20
trans-1,3-Dichloropropene	96		98		70-130	2		20
cis-1,3-Dichloropropene	90		92		70-130	2		20
1,1-Dichloropropene	92		99		70-130	7		20
Bromoform	88		89		54-136	1		20
1,1,2,2-Tetrachloroethane	96		98		67-130	2		20
Benzene	91		96		70-130	5		20
Toluene	93		97		70-130	4		20
Ethylbenzene	92		97		70-130	5		20
Chloromethane	100		110		64-130	10		20
Bromomethane	83		85		39-139	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1108906-3 WG1108906-4								
Vinyl chloride	100		110		55-140	10		20
Chloroethane	92		96		55-138	4		20
1,1-Dichloroethene	94		100		61-145	6		20
trans-1,2-Dichloroethene	90		97		70-130	7		20
Trichloroethene	88		94		70-130	7		20
1,2-Dichlorobenzene	96		100		70-130	4		20
1,3-Dichlorobenzene	94		99		70-130	5		20
1,4-Dichlorobenzene	93		98		70-130	5		20
Methyl tert butyl ether	87		89		63-130	2		20
p/m-Xylene	90		95		70-130	5		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	89		92		70-130	3		20
Dibromomethane	92		93		70-130	1		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	93		91		70-130	2		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	110		120		36-147	9		20
Acetone	95		100		58-148	5		20
Carbon disulfide	93		100		51-130	7		20
2-Butanone	91		92		63-138	1		20
Vinyl acetate	81		82		70-130	1		20
4-Methyl-2-pentanone	90		90		59-130	0		20
2-Hexanone	100		100		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1108906-3 WG1108906-4								
Bromochloromethane	91		91		70-130	0		20
2,2-Dichloropropane	99		110		63-133	11		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	97		98		70-130	1		20
1,1,1,2-Tetrachloroethane	94		95		64-130	1		20
Bromobenzene	97		100		70-130	3		20
n-Butylbenzene	99		100		53-136	1		20
sec-Butylbenzene	95		100		70-130	5		20
tert-Butylbenzene	95		100		70-130	5		20
o-Chlorotoluene	94		98		70-130	4		20
p-Chlorotoluene	95		100		70-130	5		20
1,2-Dibromo-3-chloropropane	89		92		41-144	3		20
Hexachlorobutadiene	120		130		63-130	8		20
Isopropylbenzene	97		100		70-130	3		20
p-Isopropyltoluene	97		100		70-130	3		20
Naphthalene	85		88		70-130	3		20
n-Propylbenzene	97		100		69-130	3		20
1,2,3-Trichlorobenzene	88		94		70-130	7		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	94		100		64-130	6		20
1,2,4-Trimethylbenzene	96		100		70-130	4		20
1,4-Dioxane	128		116		56-162	10		20
p-Diethylbenzene	96		100		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1108906-3 WG1108906-4								
p-Ethyltoluene	95		100		70-130	5		20
1,2,4,5-Tetramethylbenzene	96		100		70-130	4		20
Ethyl ether	89		90		59-134	1		20
trans-1,4-Dichloro-2-butene	86		86		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		103		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	97		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1109289-3 WG1109289-4								
Methylene chloride	93		94		70-130	1		20
1,1-Dichloroethane	98		99		70-130	1		20
Chloroform	91		94		70-130	3		20
Carbon tetrachloride	94		96		63-132	2		20
1,2-Dichloropropane	97		98		70-130	1		20
Dibromochloromethane	98		100		63-130	2		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	98		100		75-130	2		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	97		98		67-130	1		20
Bromodichloromethane	92		93		67-130	1		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	95		96		70-130	1		20
1,1-Dichloropropene	99		100		70-130	1		20
Bromoform	92		93		54-136	1		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	96		98		70-130	2		20
Toluene	99		100		70-130	1		20
Ethylbenzene	98		100		70-130	2		20
Chloromethane	120		120		64-130	0		20
Bromomethane	84		84		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1109289-3 WG1109289-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	99		99		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	97		98		70-130	1		20
Trichloroethene	94		95		70-130	1		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	95		97		63-130	2		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	94		96		70-130	2		20
Dibromomethane	97		100		70-130	3		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	100		100		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	120		130		36-147	8		20
Acetone	88		100		58-148	13		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	99		99		63-138	0		20
Vinyl acetate	87		90		70-130	3		20
4-Methyl-2-pentanone	99		100		59-130	1		20
2-Hexanone	110		120		57-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1109289-3 WG1109289-4								
Bromochloromethane	95		96		70-130	1		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	98		100		64-130	2		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	96		96		70-130	0		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	100		98		41-144	2		20
Hexachlorobutadiene	120		120		63-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	96		98		70-130	2		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	98		100		70-130	2		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	98		99		64-130	1		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	148		140		56-162	6		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1109289-3 WG1109289-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	99		100		59-134	1		20
trans-1,4-Dichloro-2-butene	110		97		70-130	13		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	107		107		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	97		96		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
Client ID: RMW02_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/24/18 23:51
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/21/18 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	2.8	J	ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
 Client ID: RMW02_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	100		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
Client ID: RMW02_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/21/18 12:45
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 01:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	2.2		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	0.70		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
 Client ID: RMW02_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	29		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	51		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
 Client ID: RMW02_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/24/18 15:43
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	410.		ng/l	147	73.5	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			25		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
Client ID: RMW02_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/23/18 13:25
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/20/18 11:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	14.0		ng/l	2.08	0.137	1
Perfluoropentanoic Acid (PFPeA)	26.9		ng/l	2.08	0.089	1
Perfluorobutanesulfonic Acid (PFBS)	7.73		ng/l	2.08	0.114	1
Perfluorohexanoic Acid (PFHxA)	17.5		ng/l	2.08	0.132	1
Perfluoroheptanoic Acid (PFHpA)	8.17		ng/l	2.08	0.096	1
Perfluorohexanesulfonic Acid (PFHxS)	5.62		ng/l	2.08	0.112	1
Perfluorooctanoic Acid (PFOA)	21.8		ng/l	2.08	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.08	0.202	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.479	J	ng/l	2.08	0.162	1
Perfluorononanoic Acid (PFNA)	0.971	J	ng/l	2.08	0.105	1
Perfluorooctanesulfonic Acid (PFOS)	16.1		ng/l	2.08	0.116	1
Perfluorodecanoic Acid (PFDA)	0.392	J	ng/l	2.08	0.198	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.08	0.303	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.08	0.261	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.08	0.199	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.08	0.232	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.08	0.236	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.08	0.388	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.08	0.095	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.08	0.094	1
Perfluorotetradecanoic Acid (PFTA)	0.208	J	ng/l	2.08	0.075	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
 Client ID: RMW02_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	124		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	150		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	117		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	91		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	39	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	92		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
Client ID: RMW03_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/25/18 06:02
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/24/18 18:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	2.8	J	ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	69		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/24/18 14:44
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 04/20/18 01:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	47		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.04	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.16		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	0.05	J	ug/l	0.10	0.04	1
2-Methylnaphthalene	16		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	21-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	0	Q	10-120
4-Terphenyl-d14	88		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/24/18 16:08
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	193.		ng/l	142	70.8	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			20		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02 RE
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/22/18 16:16
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 04/21/18 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.09	0.03	1
2-Chloronaphthalene	ND		ug/l	0.19	0.03	1
Fluoranthene	0.06	J	ug/l	0.09	0.04	1
Hexachlorobutadiene	ND		ug/l	0.47	0.03	1
Naphthalene	38		ug/l	0.09	0.04	1
Benzo(a)anthracene	ND		ug/l	0.09	0.02	1
Benzo(a)pyrene	ND		ug/l	0.09	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.09	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.09	0.04	1
Chrysene	ND		ug/l	0.09	0.04	1
Acenaphthylene	ND		ug/l	0.09	0.03	1
Anthracene	0.05	J	ug/l	0.09	0.03	1
Benzo(ghi)perylene	ND		ug/l	0.09	0.04	1
Fluorene	0.10		ug/l	0.09	0.04	1
Phenanthrene	0.17		ug/l	0.09	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.09	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.09	0.04	1
Pyrene	0.06	J	ug/l	0.09	0.04	1
2-Methylnaphthalene	13		ug/l	0.09	0.04	1
Pentachlorophenol	ND		ug/l	0.76	0.21	1
Hexachlorobenzene	ND		ug/l	0.76	0.03	1
Hexachloroethane	ND		ug/l	0.76	0.03	1

Project Name: 4650 BROADWAY**Lab Number:** L1813566**Project Number:** 170505502**Report Date:** 04/25/18**SAMPLE RESULTS**

Lab ID: L1813566-02 RE

Date Collected: 04/18/18 15:25

Client ID: RMW03_041818

Date Received: 04/18/18

Sample Location: NEW YORK, NY

Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	14	Q	21-120
Phenol-d6	9	Q	10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	71		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
Client ID: RMW04_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/25/18 02:30
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/21/18 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	4.8		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
 Client ID: RMW04_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	0.70	J	ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	86		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
Client ID: RMW04_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/21/18 13:49
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 01:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.07	J	ug/l	0.10	0.03	1
2-Chloronaphthalene	ND		ug/l	0.19	0.03	1
Fluoranthene	0.12		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.48	0.03	1
Naphthalene	4.6		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	0.05	J	ug/l	0.10	0.04	1
Acenaphthylene	0.13		ug/l	0.10	0.03	1
Anthracene	0.08	J	ug/l	0.10	0.03	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	0.18		ug/l	0.10	0.04	1
Phenanthrene	0.36		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	0.14		ug/l	0.10	0.04	1
2-Methylnaphthalene	6.2		ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.76	0.21	1
Hexachlorobenzene	ND		ug/l	0.76	0.03	1
Hexachloroethane	ND		ug/l	0.76	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
 Client ID: RMW04_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	37		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	51		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
 Client ID: RMW04_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/24/18 16:34
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	569.		ng/l	156	78.1	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			28		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
Client ID: RMW04_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/23/18 13:42
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/20/18 11:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	14.1		ng/l	2.50	0.164	1
Perfluoropentanoic Acid (PFPeA)	11.8		ng/l	2.50	0.107	1
Perfluorobutanesulfonic Acid (PFBS)	1.60	J	ng/l	2.50	0.138	1
Perfluorohexanoic Acid (PFHxA)	10.3		ng/l	2.50	0.158	1
Perfluoroheptanoic Acid (PFHpA)	6.42		ng/l	2.50	0.116	1
Perfluorohexanesulfonic Acid (PFHxS)	1.74	J	ng/l	2.50	0.134	1
Perfluorooctanoic Acid (PFOA)	25.7		ng/l	2.50	0.063	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.405	J	ng/l	2.50	0.242	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.735	J	ng/l	2.50	0.194	1
Perfluorononanoic Acid (PFNA)	7.26		ng/l	2.50	0.126	1
Perfluorooctanesulfonic Acid (PFOS)	18.3		ng/l	2.50	0.140	1
Perfluorodecanoic Acid (PFDA)	0.875	J	ng/l	2.50	0.238	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.50	0.364	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.50	0.313	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.50	0.239	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.50	0.278	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.50	0.284	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.13	J	ng/l	2.50	0.466	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.50	0.114	1
Perfluorotridecanoic Acid (PFTrDA)	0.180	J	ng/l	2.50	0.113	1
Perfluorotetradecanoic Acid (PFTA)	0.100	J	ng/l	2.50	0.090	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
Client ID: RMW04_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	123		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	183	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	118		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	66		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57		50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	203	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	116		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	323	Q	50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/23/18 16:03
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 04/21/18 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	4.9	0.64	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.65	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.72	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.67	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.69	1
3,3'-Dichlorobenzidine	ND		ug/l	4.9	1.4	1
2,4-Dinitrotoluene	ND		ug/l	4.9	0.82	1
2,6-Dinitrotoluene	ND		ug/l	4.9	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.71	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.68	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.9	0.61	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.6	1
Isophorone	ND		ug/l	4.9	0.59	1
Nitrobenzene	ND		ug/l	2.0	0.74	1
NDPA/DPA	ND		ug/l	2.0	0.63	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.9	0.68	1
Bis(2-ethylhexyl)phthalate	2.5	J	ug/l	2.9	0.89	1
Butyl benzyl phthalate	ND		ug/l	4.9	1.2	1
Di-n-butylphthalate	ND		ug/l	4.9	0.67	1
Di-n-octylphthalate	ND		ug/l	4.9	1.1	1
Diethyl phthalate	ND		ug/l	4.9	0.61	1
Dimethyl phthalate	ND		ug/l	4.9	0.64	1
Biphenyl	ND		ug/l	2.0	0.74	1
4-Chloroaniline	ND		ug/l	4.9	0.62	1
2-Nitroaniline	ND		ug/l	4.9	1.1	1
3-Nitroaniline	ND		ug/l	4.9	1.2	1
4-Nitroaniline	ND		ug/l	4.9	1.3	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.64	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	9.8	0.65	1
Acetophenone	ND		ug/l	4.9	0.83	1
2,4,6-Trichlorophenol	ND		ug/l	4.9	0.66	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.60	1
2-Chlorophenol	ND		ug/l	2.0	0.62	1
2,4-Dichlorophenol	ND		ug/l	4.9	0.75	1
2,4-Dimethylphenol	ND		ug/l	4.9	1.6	1
2-Nitrophenol	ND		ug/l	9.8	1.5	1
4-Nitrophenol	ND		ug/l	9.8	1.7	1
2,4-Dinitrophenol	ND		ug/l	20	5.3	1
4,6-Dinitro-o-cresol	ND		ug/l	9.8	2.0	1
Phenol	ND		ug/l	4.9	1.8	1
2-Methylphenol	ND		ug/l	4.9	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.9	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	4.9	0.70	1
Benzoic Acid	ND		ug/l	49	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.71	1
Carbazole	ND		ug/l	2.0	0.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	80		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/21/18 14:21
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 04/20/18 01:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.03	1
2-Chloronaphthalene	ND		ug/l	0.20	0.03	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.49	0.04	1
Naphthalene	4.1		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.03	1
Anthracene	ND		ug/l	0.10	0.03	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	1.1		ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.78	0.22	1
Hexachlorobenzene	ND		ug/l	0.78	0.03	1
Hexachloroethane	ND		ug/l	0.78	0.03	1

Project Name: 4650 BROADWAY**Lab Number:** L1813566**Project Number:** 170505502**Report Date:** 04/25/18**SAMPLE RESULTS**

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	40		10-120
4-Terphenyl-d14	52		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/24/18 16:59
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	334.		ng/l	147	73.5	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			26		15-110	

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 122,537(M)
 Analytical Date: 04/23/18 14:15
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 04/20/18 11:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	12.9		ng/l	1.72	0.113	1
Perfluoropentanoic Acid (PFPeA)	24.6		ng/l	1.72	0.074	1
Perfluorobutanesulfonic Acid (PFBS)	7.32		ng/l	1.72	0.095	1
Perfluorohexanoic Acid (PFHxA)	15.9		ng/l	1.72	0.109	1
Perfluoroheptanoic Acid (PFHpA)	7.75		ng/l	1.72	0.080	1
Perfluorohexanesulfonic Acid (PFHxS)	5.27		ng/l	1.72	0.093	1
Perfluorooctanoic Acid (PFOA)	19.7		ng/l	1.72	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.72	0.167	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.548	J	ng/l	1.72	0.134	1
Perfluorononanoic Acid (PFNA)	0.966	J	ng/l	1.72	0.087	1
Perfluorooctanesulfonic Acid (PFOS)	17.0		ng/l	1.72	0.096	1
Perfluorodecanoic Acid (PFDA)	0.366	J	ng/l	1.72	0.164	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.72	0.251	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.72	0.216	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.72	0.165	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.72	0.192	1
Perfluorooctanesulfonamide (FOSA)	0.234	J	ng/l	1.72	0.196	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.72	0.321	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.72	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.72	0.078	1
Perfluorotetradecanoic Acid (PFTA)	0.145	J	ng/l	1.72	0.062	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	130		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	112		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	176	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	114		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	121		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	150		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	112		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	116		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	107		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
Client ID: RGWFB01_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/23/18 16:27
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 04/21/18 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	4.8	0.64	1
Bis(2-chloroethyl)ether	ND		ug/l	1.9	0.65	1
1,2-Dichlorobenzene	ND		ug/l	1.9	0.71	1
1,3-Dichlorobenzene	ND		ug/l	1.9	0.66	1
1,4-Dichlorobenzene	ND		ug/l	1.9	0.68	1
3,3'-Dichlorobenzidine	ND		ug/l	4.8	1.3	1
2,4-Dinitrotoluene	ND		ug/l	4.8	0.82	1
2,6-Dinitrotoluene	ND		ug/l	4.8	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	1.9	0.60	1
4-Bromophenyl phenyl ether	ND		ug/l	1.9	0.71	1
Bis(2-chloroisopropyl)ether	ND		ug/l	1.9	0.67	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.8	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	19	7.6	1
Isophorone	ND		ug/l	4.8	0.58	1
Nitrobenzene	ND		ug/l	1.9	0.73	1
NDPA/DPA	ND		ug/l	1.9	0.62	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.8	0.68	1
Bis(2-ethylhexyl)phthalate	2.0	J	ug/l	2.9	0.88	1
Butyl benzyl phthalate	ND		ug/l	4.8	1.2	1
Di-n-butylphthalate	ND		ug/l	4.8	0.66	1
Di-n-octylphthalate	ND		ug/l	4.8	1.1	1
Diethyl phthalate	ND		ug/l	4.8	0.61	1
Dimethyl phthalate	ND		ug/l	4.8	0.63	1
Biphenyl	ND		ug/l	1.9	0.73	1
4-Chloroaniline	ND		ug/l	4.8	0.61	1
2-Nitroaniline	ND		ug/l	4.8	1.1	1
3-Nitroaniline	ND		ug/l	4.8	1.2	1
4-Nitroaniline	ND		ug/l	4.8	1.2	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	1.9	0.63	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	9.6	0.64	1
Acetophenone	ND		ug/l	4.8	0.82	1
2,4,6-Trichlorophenol	ND		ug/l	4.8	0.66	1
p-Chloro-m-cresol	ND		ug/l	1.9	0.60	1
2-Chlorophenol	ND		ug/l	1.9	0.61	1
2,4-Dichlorophenol	ND		ug/l	4.8	0.74	1
2,4-Dimethylphenol	ND		ug/l	4.8	1.6	1
2-Nitrophenol	ND		ug/l	9.6	1.5	1
4-Nitrophenol	ND		ug/l	9.6	1.7	1
2,4-Dinitrophenol	ND		ug/l	19	5.3	1
4,6-Dinitro-o-cresol	ND		ug/l	9.6	2.0	1
Phenol	ND		ug/l	4.8	1.8	1
2-Methylphenol	ND		ug/l	4.8	0.98	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.8	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	4.8	0.69	1
Benzoic Acid	ND		ug/l	48	12.	1
Benzyl Alcohol	ND		ug/l	1.9	0.70	1
Carbazole	ND		ug/l	1.9	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	77		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/21/18 14:52
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 04/20/18 01:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.03	1
2-Chloronaphthalene	0.04	J	ug/l	0.20	0.03	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.49	0.04	1
Naphthalene	0.06	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.03	1
Anthracene	ND		ug/l	0.10	0.03	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.78	0.22	1
Hexachlorobenzene	ND		ug/l	0.78	0.03	1
Hexachloroethane	ND		ug/l	0.78	0.03	1

Project Name: 4650 BROADWAY**Lab Number:** L1813566**Project Number:** 170505502**Report Date:** 04/25/18**SAMPLE RESULTS**

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	55		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/24/18 17:23
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	142	70.8	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			20		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
Client ID: RGWFB01_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/23/18 12:52
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/20/18 11:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.78	0.117	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.78	0.076	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.78	0.098	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.78	0.113	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.78	0.083	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.78	0.096	1
Perfluorooctanoic Acid (PFOA)	0.728	J	ng/l	1.78	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.275	J	ng/l	1.78	0.173	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.78	0.138	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.78	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	0.239	J	ng/l	1.78	0.100	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.78	0.170	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.78	0.260	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.78	0.224	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.78	0.171	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.78	0.198	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.78	0.202	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.78	0.333	1
Perfluorododecanoic Acid (PFDoA)	0.096	J	ng/l	1.78	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	0.107	J	ng/l	1.78	0.081	1
Perfluorotetradecanoic Acid (PFTA)	0.104	J	ng/l	1.78	0.064	1

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	121		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	115		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	121		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	119		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	133		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	124		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	128		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	69		50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	136		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	126		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-07
Client ID: RMW03_041818
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 15:25
Date Received: 04/19/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/23/18 14:31
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/20/18 11:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	44.4		ng/l	2.38	0.156	1
Perfluoropentanoic Acid (PFPeA)	87.6		ng/l	2.38	0.102	1
Perfluorobutanesulfonic Acid (PFBS)	15.3		ng/l	2.38	0.131	1
Perfluorohexanoic Acid (PFHxA)	76.0		ng/l	2.38	0.150	1
Perfluoroheptanoic Acid (PFHpA)	56.1		ng/l	2.38	0.110	1
Perfluorohexanesulfonic Acid (PFHxS)	25.8		ng/l	2.38	0.128	1
Perfluorooctanoic Acid (PFOA)	169		ng/l	2.38	0.060	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.867	J	ng/l	2.38	0.231	1
Perfluoroheptanesulfonic Acid (PFHpS)	2.14	J	ng/l	2.38	0.185	1
Perfluorononanoic Acid (PFNA)	3.43		ng/l	2.38	0.120	1
Perfluorooctanesulfonic Acid (PFOS)	31.5		ng/l	2.38	0.133	1
Perfluorodecanoic Acid (PFDA)	0.533	J	ng/l	2.38	0.227	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.38	0.346	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.38	0.298	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.38	0.228	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.38	0.265	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.38	0.270	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.38	0.444	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.38	0.109	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.38	0.108	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.38	0.086	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-07
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 15:25
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	62		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	61		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	124		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	263	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	110		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	202	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	38	Q	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	118		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	6	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	150		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/20/18 15:52
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/19/18 23:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1108126-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 04/20/18 15:52
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 04/19/18 23:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1108126-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	66		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 04/23/18 11:46
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/20/18 11:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,03-05,07 Batch: WG1108323-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.131
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.086
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.110
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.126
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.092
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.108
Perfluorooctanoic Acid (PFOA)	0.912	J	ng/l	2.00	0.050
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	0.194
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.155
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.101
Perfluorooctanesulfonic Acid (PFOS)	0.172	J	ng/l	2.00	0.112
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.190
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	0.291
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.250
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.191
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.222
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.227
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.373
Perfluorododecanoic Acid (PFDoA)	0.180	J	ng/l	2.00	0.092
Perfluorotridecanoic Acid (PFTrDA)	0.172	J	ng/l	2.00	0.090
Perfluorotetradecanoic Acid (PFTA)	0.208	J	ng/l	2.00	0.072

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 04/23/18 11:46
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/20/18 11:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,03-05,07 Batch: WG1108323-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	116		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	116		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	130		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	128		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	125		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	125		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	120		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	133		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	158	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	131		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	145		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	23	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	151	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	143		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	143		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/24/18 08:10
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 04/21/18 15:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG1108667-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	1.6	J	ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/24/18 08:10
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 04/21/18 15:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG1108667-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/24/18 08:10
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 04/21/18 15:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG1108667-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	102		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/22/18 08:56
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/21/18 15:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1108669-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D-SIM

Extraction Method: EPA 3510C

Analytical Date: 04/22/18 08:56

Extraction Date: 04/21/18 15:30

Analyst: KL

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1108669-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	99		41-149

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D-SIM
 Analytical Date: 04/24/18 10:13
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 16:30

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-05 Batch: WG1108965-1					
1,4-Dioxane	ND		ng/l	150	75.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	18		15-110

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/24/18 21:11
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/24/18 11:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1109274-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/24/18 21:11
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/24/18 11:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1109274-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/24/18 21:11
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/24/18 11:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1109274-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63

Tentatively Identified Compounds

Total TIC Compounds	7.59	J	ug/l
Aldol Condensates	7.59	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	90		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1108126-2 WG1108126-3								
Acenaphthene	51		54		40-140	6		40
2-Chloronaphthalene	45		48		40-140	6		40
Fluoranthene	49		55		40-140	12		40
Hexachlorobutadiene	40		38	Q	40-140	5		40
Naphthalene	44		44		40-140	0		40
Benzo(a)anthracene	46		52		40-140	12		40
Benzo(a)pyrene	47		50		40-140	6		40
Benzo(b)fluoranthene	47		50		40-140	6		40
Benzo(k)fluoranthene	49		52		40-140	6		40
Chrysene	47		52		40-140	10		40
Acenaphthylene	51		55		40-140	8		40
Anthracene	49		54		40-140	10		40
Benzo(ghi)perylene	47		49		40-140	4		40
Fluorene	54		58		40-140	7		40
Phenanthrene	46		51		40-140	10		40
Dibenzo(a,h)anthracene	49		51		40-140	4		40
Indeno(1,2,3-cd)pyrene	47		49		40-140	4		40
Pyrene	48		54		40-140	12		40
2-Methylnaphthalene	46		48		40-140	4		40
Pentachlorophenol	54		58		40-140	7		40
Hexachlorobenzene	48		52		40-140	8		40
Hexachloroethane	39	Q	34	Q	40-140	14		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1108126-2 WG1108126-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	36		34		21-120
Phenol-d6	28		30		10-120
Nitrobenzene-d5	54		54		23-120
2-Fluorobiphenyl	49		52		15-120
2,4,6-Tribromophenol	66		71		10-120
4-Terphenyl-d14	57		62		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,03-05,07 Batch: WG1108323-2 WG1108323-3								
Perfluorobutanoic Acid (PFBA)	130		134		50-150	3		30
Perfluoropentanoic Acid (PFPeA)	139		141		50-150	1		30
Perfluorobutanesulfonic Acid (PFBS)	130		136		50-150	5		30
Perfluorohexanoic Acid (PFHxA)	139		142		50-150	2		30
Perfluoroheptanoic Acid (PFHpA)	124		125		50-150	1		30
Perfluorohexanesulfonic Acid (PFHxS)	144		150		50-150	4		30
Perfluorooctanoic Acid (PFOA)	126		128		50-150	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	127		131		50-150	3		30
Perfluoroheptanesulfonic Acid (PFHpS)	132		133		50-150	1		30
Perfluorononanoic Acid (PFNA)	142		134		50-150	6		30
Perfluorooctanesulfonic Acid (PFOS)	119		112		50-150	6		30
Perfluorodecanoic Acid (PFDA)	141		137		50-150	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	110		115		50-150	4		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	122		124		50-150	2		30
Perfluoroundecanoic Acid (PFUnA)	124		127		50-150	2		30
Perfluorodecanesulfonic Acid (PFDS)	110		109		50-150	1		30
Perfluorooctanesulfonamide (FOSA)	128		118		50-150	8		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	123		125		50-150	2		30
Perfluorododecanoic Acid (PFDoA)	118		120		50-150	2		30
Perfluorotridecanoic Acid (PFTrDA)	108		124		50-150	14		30
Perfluorotetradecanoic Acid (PFTA)	120		128		50-150	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,03-05,07 Batch: WG1108323-2 WG1108323-3

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		82		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		99		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		109		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		92		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	109		106		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	120		125		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	121		117		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	124		138		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	118		116		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		120		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	122		124		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	135		140		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	133		131		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	144		137		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	20	Q	16	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	150		145		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	145		134		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	134		133		50-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1108667-2 WG1108667-3								
Acenaphthene	77		73		37-111	5		30
1,2,4-Trichlorobenzene	70		67		39-98	4		30
Hexachlorobenzene	82		81		40-140	1		30
Bis(2-chloroethyl)ether	62		59		40-140	5		30
2-Chloronaphthalene	76		76		40-140	0		30
1,2-Dichlorobenzene	65		64		40-140	2		30
1,3-Dichlorobenzene	64		62		40-140	3		30
1,4-Dichlorobenzene	66		61		36-97	8		30
3,3'-Dichlorobenzidine	66		60		40-140	10		30
2,4-Dinitrotoluene	92		88		48-143	4		30
2,6-Dinitrotoluene	85		81		40-140	5		30
Fluoranthene	85		82		40-140	4		30
4-Chlorophenyl phenyl ether	80		75		40-140	6		30
4-Bromophenyl phenyl ether	82		81		40-140	1		30
Bis(2-chloroisopropyl)ether	50		49		40-140	2		30
Bis(2-chloroethoxy)methane	73		67		40-140	9		30
Hexachlorobutadiene	72		72		40-140	0		30
Hexachlorocyclopentadiene	52		53		40-140	2		30
Hexachloroethane	68		70		40-140	3		30
Isophorone	82		70		40-140	16		30
Naphthalene	68		71		40-140	4		30
Nitrobenzene	78		76		40-140	3		30
NDPA/DPA	85		80		40-140	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1108667-2 WG1108667-3								
n-Nitrosodi-n-propylamine	81		72		29-132	12		30
Bis(2-ethylhexyl)phthalate	106		107		40-140	1		30
Butyl benzyl phthalate	96		94		40-140	2		30
Di-n-butylphthalate	94		92		40-140	2		30
Di-n-octylphthalate	102		102		40-140	0		30
Diethyl phthalate	94		91		40-140	3		30
Dimethyl phthalate	90		86		40-140	5		30
Benzo(a)anthracene	83		82		40-140	1		30
Benzo(a)pyrene	84		82		40-140	2		30
Benzo(b)fluoranthene	83		84		40-140	1		30
Benzo(k)fluoranthene	88		85		40-140	3		30
Chrysene	82		82		40-140	0		30
Acenaphthylene	85		80		45-123	6		30
Anthracene	81		82		40-140	1		30
Benzo(ghi)perylene	83		82		40-140	1		30
Fluorene	82		78		40-140	5		30
Phenanthrene	82		78		40-140	5		30
Dibenzo(a,h)anthracene	85		83		40-140	2		30
Indeno(1,2,3-cd)pyrene	86		82		40-140	5		30
Pyrene	87		83		26-127	5		30
Biphenyl	84		82		40-140	2		30
4-Chloroaniline	64		63		40-140	2		30
2-Nitroaniline	89		84		52-143	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1108667-2 WG1108667-3								
3-Nitroaniline	66		58		25-145	13		30
4-Nitroaniline	83		79		51-143	5		30
Dibenzofuran	82		77		40-140	6		30
2-Methylnaphthalene	76		75		40-140	1		30
1,2,4,5-Tetrachlorobenzene	76		79		2-134	4		30
Acetophenone	85		79		39-129	7		30
2,4,6-Trichlorophenol	85		85		30-130	0		30
p-Chloro-m-cresol	90		88		23-97	2		30
2-Chlorophenol	67		59		27-123	13		30
2,4-Dichlorophenol	85		79		30-130	7		30
2,4-Dimethylphenol	84		76		30-130	10		30
2-Nitrophenol	80		73		30-130	9		30
4-Nitrophenol	51		55		10-80	8		30
2,4-Dinitrophenol	69		67		20-130	3		30
4,6-Dinitro-o-cresol	93		92		20-164	1		30
Pentachlorophenol	63		64		9-103	2		30
Phenol	30		31		12-110	3		30
2-Methylphenol	62		55		30-130	12		30
3-Methylphenol/4-Methylphenol	67		60		30-130	11		30
2,4,5-Trichlorophenol	87		86		30-130	1		30
Benzoic Acid	6	Q	7	Q	10-164	18		30
Benzyl Alcohol	72		69		26-116	4		30
Carbazole	86		85		55-144	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1108667-2 WG1108667-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	43		42		21-120
Phenol-d6	31		29		10-120
Nitrobenzene-d5	82		75		23-120
2-Fluorobiphenyl	82		81		15-120
2,4,6-Tribromophenol	89		87		10-120
4-Terphenyl-d14	98		93		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1108669-2 WG1108669-3								
Acenaphthene	66		65		40-140	2		40
2-Chloronaphthalene	64		64		40-140	0		40
Fluoranthene	69		73		40-140	6		40
Hexachlorobutadiene	54		53		40-140	2		40
Naphthalene	60		58		40-140	3		40
Benzo(a)anthracene	66		69		40-140	4		40
Benzo(a)pyrene	70		71		40-140	1		40
Benzo(b)fluoranthene	71		74		40-140	4		40
Benzo(k)fluoranthene	71		73		40-140	3		40
Chrysene	67		71		40-140	6		40
Acenaphthylene	66		65		40-140	2		40
Anthracene	64		69		40-140	8		40
Benzo(ghi)perylene	69		71		40-140	3		40
Fluorene	70		71		40-140	1		40
Phenanthrene	63		66		40-140	5		40
Dibenzo(a,h)anthracene	77		78		40-140	1		40
Indeno(1,2,3-cd)pyrene	75		76		40-140	1		40
Pyrene	69		73		40-140	6		40
2-Methylnaphthalene	64		64		40-140	0		40
Pentachlorophenol	54		58		40-140	7		40
Hexachlorobenzene	52		54		40-140	4		40
Hexachloroethane	67		66		40-140	2		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1108669-2 WG1108669-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	35		34		21-120
Phenol-d6	26		25		10-120
Nitrobenzene-d5	76		74		23-120
2-Fluorobiphenyl	75		75		15-120
2,4,6-Tribromophenol	53		54		10-120
4-Terphenyl-d14	90		95		41-149

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-05 Batch: WG1108965-2 WG1108965-3								
1,4-Dioxane	108		110		40-140	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	15		15		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1109274-2 WG1109274-3								
Acenaphthene	84		82		37-111	2		30
1,2,4-Trichlorobenzene	70		66		39-98	6		30
Hexachlorobenzene	91		88		40-140	3		30
Bis(2-chloroethyl)ether	74		70		40-140	6		30
2-Chloronaphthalene	86		80		40-140	7		30
1,2-Dichlorobenzene	64		63		40-140	2		30
1,3-Dichlorobenzene	61		61		40-140	0		30
1,4-Dichlorobenzene	62		61		36-97	2		30
3,3'-Dichlorobenzidine	60		61		40-140	2		30
2,4-Dinitrotoluene	99		98		48-143	1		30
2,6-Dinitrotoluene	101		96		40-140	5		30
Fluoranthene	93		91		40-140	2		30
4-Chlorophenyl phenyl ether	88		86		40-140	2		30
4-Bromophenyl phenyl ether	93		89		40-140	4		30
Bis(2-chloroisopropyl)ether	74		71		40-140	4		30
Bis(2-chloroethoxy)methane	82		75		40-140	9		30
Hexachlorobutadiene	70		68		40-140	3		30
Hexachlorocyclopentadiene	70		68		40-140	3		30
Hexachloroethane	61		59		40-140	3		30
Isophorone	84		78		40-140	7		30
Naphthalene	76		72		40-140	5		30
Nitrobenzene	75		72		40-140	4		30
NDPA/DPA	89		85		40-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1109274-2 WG1109274-3								
n-Nitrosodi-n-propylamine	81		76		29-132	6		30
Bis(2-ethylhexyl)phthalate	96		94		40-140	2		30
Butyl benzyl phthalate	99		105		40-140	6		30
Di-n-butylphthalate	95		92		40-140	3		30
Di-n-octylphthalate	94		93		40-140	1		30
Diethyl phthalate	92		89		40-140	3		30
Dimethyl phthalate	92		87		40-140	6		30
Benzo(a)anthracene	88		87		40-140	1		30
Benzo(a)pyrene	91		92		40-140	1		30
Benzo(b)fluoranthene	95		94		40-140	1		30
Benzo(k)fluoranthene	92		90		40-140	2		30
Chrysene	89		88		40-140	1		30
Acenaphthylene	90		85		45-123	6		30
Anthracene	91		88		40-140	3		30
Benzo(ghi)perylene	91		91		40-140	0		30
Fluorene	89		86		40-140	3		30
Phenanthrene	90		88		40-140	2		30
Dibenzo(a,h)anthracene	92		91		40-140	1		30
Indeno(1,2,3-cd)pyrene	92		90		40-140	2		30
Pyrene	93		91		26-127	2		30
Biphenyl	89		84		40-140	6		30
4-Chloroaniline	60		52		40-140	14		30
2-Nitroaniline	98		96		52-143	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1109274-2 WG1109274-3								
3-Nitroaniline	75		73		25-145	3		30
4-Nitroaniline	97		95		51-143	2		30
Dibenzofuran	88		86		40-140	2		30
2-Methylnaphthalene	83		80		40-140	4		30
1,2,4,5-Tetrachlorobenzene	83		78		2-134	6		30
Acetophenone	80		77		39-129	4		30
2,4,6-Trichlorophenol	90		86		30-130	5		30
p-Chloro-m-cresol	90		83		23-97	8		30
2-Chlorophenol	70		68		27-123	3		30
2,4-Dichlorophenol	83		81		30-130	2		30
2,4-Dimethylphenol	80		77		30-130	4		30
2-Nitrophenol	78		78		30-130	0		30
4-Nitrophenol	56		59		10-80	5		30
2,4-Dinitrophenol	79		77		20-130	3		30
4,6-Dinitro-o-cresol	89		88		20-164	1		30
Pentachlorophenol	90		90		9-103	0		30
Phenol	39		38		12-110	3		30
2-Methylphenol	72		69		30-130	4		30
3-Methylphenol/4-Methylphenol	68		66		30-130	3		30
2,4,5-Trichlorophenol	94		88		30-130	7		30
Benzoic Acid	19		13		10-164	38	Q	30
Benzyl Alcohol	70		68		26-116	3		30
Carbazole	92		90		55-144	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1109274-2 WG1109274-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	47		47		21-120
Phenol-d6	36		36		10-120
Nitrobenzene-d5	75		73		23-120
2-Fluorobiphenyl	89		85		15-120
2,4,6-Tribromophenol	96		92		10-120
4-Terphenyl-d14	93		89		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,03-05,07 QC Batch ID: WG1108323-4 QC Sample: L1813566-05 Client ID: RGWFB01_041818												
Perfluorobutanoic Acid (PFBA)	ND	34.5	45.6	132		-	-		50-150	-		30
Perfluoropentanoic Acid (PFPeA)	ND	34.5	46.8	136		-	-		50-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	34.5	46.4	135		-	-		50-150	-		30
Perfluorohexanoic Acid (PFHxA)	ND	34.5	47.9	139		-	-		50-150	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	34.5	43.2	125		-	-		50-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	34.5	50.1	145		-	-		50-150	-		30
Perfluorooctanoic Acid (PFOA)	0.728J	34.5	44.2	128		-	-		50-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.275J	34.5	40.7	118		-	-		50-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	34.5	50.2	146		-	-		50-150	-		30
Perfluorononanoic Acid (PFNA)	ND	34.5	47.6	138		-	-		50-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.239J	34.5	42.5	123		-	-		50-150	-		30
Perfluorodecanoic Acid (PFDA)	ND	34.5	47.3	137		-	-		50-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	34.5	41.6	121		-	-		50-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	34.5	45.6	132		-	-		50-150	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	34.5	45.5	132		-	-		50-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	34.5	42.1	122		-	-		50-150	-		30
Perfluorooctanesulfonamide (FOSA)	ND	34.5	45.0	131		-	-		50-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	34.5	39.6	115		-	-		50-150	-		30
Perfluorododecanoic Acid (PFDoA)	0.096J	34.5	46.9	136		-	-		50-150	-		30
Perfluorotridecanoic Acid (PFTrDA)	0.107J	34.5	43.6	126		-	-		50-150	-		30
Perfluorotetradecanoic Acid (PFTA)	0.104J	34.5	44.2	128		-	-		50-150	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,03-05,07 QC Batch ID: WG1108323-4 QC Sample: L1813566-05 Client ID: RGWFB01_041818												

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	134				50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	127				50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	139				50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	125				50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	132				50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	119				50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89				50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102				50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	123				50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	115				50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	123				50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	86				50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96				50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47	Q			50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109				50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	113				50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108				50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104				50-150

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,03-05,07 QC Batch ID: WG1108323-5 QC Sample: L1813566-03 Client ID: RMW04_041818						
Perfluorobutanoic Acid (PFBA)	14.1	15.1	ng/l	7		30
Perfluoropentanoic Acid (PFPeA)	11.8	12.4	ng/l	5		30
Perfluorobutanesulfonic Acid (PFBS)	1.60J	1.32J	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	10.3	10.1	ng/l	2		30
Perfluoroheptanoic Acid (PFHpA)	6.42	6.46	ng/l	1		30
Perfluorohexanesulfonic Acid (PFHxS)	1.74J	1.55J	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	25.7	26.0	ng/l	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.405J	0.404J	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	0.735J	1.24J	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	7.26	6.54	ng/l	10		30
Perfluorooctanesulfonic Acid (PFOS)	18.3	17.3	ng/l	6		30
Perfluorodecanoic Acid (PFDA)	0.875J	0.922J	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	0.274J	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.13J	1.19J	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	0.180J	0.113J	ng/l	NC		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,03-05,07 QC Batch ID: WG1108323-5 QC Sample: L1813566-03 Client ID: RMW04_041818						
Perfluorotetradecanoic Acid (PFTA)	0.100J	0.148J	ng/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		90		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		86		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		105		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		85		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		106		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	123		126		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		106		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	183	Q	198	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		89		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		97		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	118		113		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	66		55		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96		86		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFU DA)	99		109		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57		95		50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	203	Q	203	Q	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	116		113		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	323	Q	357	Q	50-150

PCBS

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
Client ID: RMW02_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/23/18 20:46
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 18:37
Cleanup Method: EPA 3665A
Cleanup Date: 04/21/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
Client ID: RMW03_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/23/18 20:59
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 21:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/21/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
Client ID: RMW04_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/23/18 21:12
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 18:37
Cleanup Method: EPA 3665A
Cleanup Date: 04/21/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
Client ID: RGWDUP01_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/23/18 21:25
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 18:37
Cleanup Method: EPA 3665A
Cleanup Date: 04/21/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
Client ID: RGWFB01_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/23/18 21:38
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 18:37
Cleanup Method: EPA 3665A
Cleanup Date: 04/21/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/23/18 23:22
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 18:37
Cleanup Method: EPA 3665A
Cleanup Date: 04/21/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/21/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1108469-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	91		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1108469-2 WG1108469-3									
Aroclor 1016	70		68		40-140	3		50	A
Aroclor 1260	81		78		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		69		30-150	A
Decachlorobiphenyl	90		92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		67		30-150	B
Decachlorobiphenyl	84		87		30-150	B

PESTICIDES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
Client ID: RMW02_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/24/18 19:56
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
Client ID: RMW02_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	123		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	121		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
 Client ID: RMW02_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/21/18 16:13
 Analyst: BM

Extraction Method: EPA 8151A
 Extraction Date: 04/20/18 01:06

Methylation Date: 04/20/18 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	122		30-150	A
DCAA	112		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
Client ID: RMW03_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/24/18 20:09
Analyst: BM

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/21/18 16:51
 Analyst: BM

Extraction Method: EPA 8151A
 Extraction Date: 04/20/18 01:06

Methylation Date: 04/20/18 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	156	Q	30-150	A
DCAA	145		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
Client ID: RMW04_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/24/18 20:22
Analyst: BM

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
 Client ID: RMW04_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	121		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	109		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
 Client ID: RMW04_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/21/18 17:10
 Analyst: BM

Extraction Method: EPA 8151A
 Extraction Date: 04/20/18 01:06

Methylation Date: 04/20/18 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	130		30-150	A
DCAA	144		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 04/21/18 12:42
 Analyst: JW

Extraction Method: EPA 3510C
 Extraction Date: 04/20/18 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY**Lab Number:** L1813566**Project Number:** 170505502**Report Date:** 04/25/18**SAMPLE RESULTS**

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water

Extraction Method: EPA 8151A

Analytical Method: 1,8151A

Extraction Date: 04/20/18 01:06

Analytical Date: 04/21/18 17:29

Analyst: BM

Methylation Date: 04/20/18 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	151	Q	30-150	A
DCAA	137		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
Client ID: RGWFB01_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
Date Received: 04/18/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/21/18 12:55
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	114		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/21/18 17:47
 Analyst: BM

Extraction Method: EPA 8151A
 Extraction Date: 04/20/18 01:06

Methylation Date: 04/20/18 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	128		30-150	A
DCAA	115		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/21/18 15:17
Analyst: BM

Extraction Method: EPA 8151A
Extraction Date: 04/20/18 01:06

Methylation Date: 04/20/18 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1108142-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	130		30-150	A
DCAA	117		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/21/18 11:14
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 04/20/18 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1108414-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin aldehyde	ND		ug/l	0.040	0.008	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 04/21/18 11:14
 Analyst: JW

Extraction Method: EPA 3510C
 Extraction Date: 04/20/18 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1108414-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	106		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1108142-2 WG1108142-3									
2,4-D	88		98		30-150	11		25	A
2,4,5-T	96		107		30-150	11		25	A
2,4,5-TP (Silvex)	89		99		30-150	11		25	A

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria	Column
DCAA	113		127		30-150	A
DCAA	114		127		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1108414-2 WG1108414-3									
Delta-BHC	100		116		30-150	15		20	A
Lindane	95		110		30-150	15		20	A
Alpha-BHC	95		109		30-150	14		20	A
Beta-BHC	97		110		30-150	12		20	A
Heptachlor	95		111		30-150	15		20	A
Aldrin	98		113		30-150	14		20	A
Heptachlor epoxide	104		121		30-150	15		20	A
Endrin	103		119		30-150	14		20	A
Endrin aldehyde	98		112		30-150	13		20	A
Endrin ketone	115		131		30-150	13		20	A
Dieldrin	104		121		30-150	15		20	A
4,4'-DDE	96		111		30-150	15		20	A
4,4'-DDD	96		112		30-150	15		20	A
4,4'-DDT	98		115		30-150	16		20	A
Endosulfan I	100		116		30-150	15		20	A
Endosulfan II	100		116		30-150	15		20	A
Endosulfan sulfate	106		122		30-150	14		20	A
Methoxychlor	103		118		30-150	14		20	A
cis-Chlordane	98		112		30-150	13		20	A
trans-Chlordane	98		112		30-150	13		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1108414-2 WG1108414-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		106		30-150	A
Decachlorobiphenyl	111		127		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		111		30-150	B
Decachlorobiphenyl	109		122		30-150	B

METALS

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
 Client ID: RMW02_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	58.6		mg/l	0.0100	0.00327	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Antimony, Total	0.00137	J	mg/l	0.00400	0.00042	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Arsenic, Total	0.05553		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Barium, Total	0.2367		mg/l	0.00050	0.00017	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00418		mg/l	0.00050	0.00010	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00117		mg/l	0.00020	0.00005	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Calcium, Total	151.		mg/l	0.100	0.0394	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Chromium, Total	0.2200		mg/l	0.00100	0.00017	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Cobalt, Total	0.08041		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Copper, Total	0.2467		mg/l	0.00100	0.00038	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Iron, Total	174.		mg/l	0.0500	0.0191	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Lead, Total	0.1719		mg/l	0.00100	0.00034	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Magnesium, Total	49.9		mg/l	0.0700	0.0242	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Manganese, Total	2.276		mg/l	0.00250	0.00044	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Mercury, Total	0.00007	J	mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:03	EPA 7470A	1,7470A	MG
Nickel, Total	0.1364		mg/l	0.00200	0.00055	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Potassium, Total	15.8		mg/l	0.100	0.0309	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Selenium, Total	0.0131		mg/l	0.00500	0.00173	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Silver, Total	0.00030	J	mg/l	0.00040	0.00016	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Sodium, Total	732.		mg/l	1.00	0.293	10	04/20/18 09:20	04/23/18 15:29	EPA 3005A	1,6020A	AM
Thallium, Total	0.00032	J	mg/l	0.00050	0.00014	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Vanadium, Total	0.1690		mg/l	0.00500	0.00157	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
Zinc, Total	0.4083		mg/l	0.01000	0.00341	1	04/20/18 09:20	04/23/18 15:17	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.22		mg/l	0.010	0.010	1		04/23/18 15:17	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01
 Client ID: RMW02_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00089	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00171		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.08584		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	0.00019	J	mg/l	0.00020	0.00005	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Calcium, Dissolved	151.		mg/l	0.100	0.0394	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00028	J	mg/l	0.00100	0.00017	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00261		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00082	J	mg/l	0.00100	0.00038	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Iron, Dissolved	0.0357	J	mg/l	0.0500	0.0191	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	27.4		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.5115		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:22	EPA 7470A	1,7470A	MG
Nickel, Dissolved	0.00264		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Potassium, Dissolved	14.5		mg/l	0.100	0.0309	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Sodium, Dissolved	708.		mg/l	1.00	0.293	10	04/20/18 13:00	04/23/18 16:20	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/23/18 14:30	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4.95		mg/l	0.0100	0.00327	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00487		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Barium, Total	0.05300		mg/l	0.00050	0.00017	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00028	J	mg/l	0.00050	0.00010	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Calcium, Total	81.9		mg/l	0.100	0.0394	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Chromium, Total	0.01068		mg/l	0.00100	0.00017	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00794		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Copper, Total	0.01612		mg/l	0.00100	0.00038	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Iron, Total	13.0		mg/l	0.0500	0.0191	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Lead, Total	0.01051		mg/l	0.00100	0.00034	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Magnesium, Total	13.0		mg/l	0.0700	0.0242	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Manganese, Total	0.2894		mg/l	0.00250	0.00044	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:12	EPA 7470A	1,7470A	MG
Nickel, Total	0.01135		mg/l	0.00200	0.00055	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Potassium, Total	11.2		mg/l	0.100	0.0309	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Sodium, Total	372.		mg/l	0.100	0.0293	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Vanadium, Total	0.01222		mg/l	0.00500	0.00157	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
Zinc, Total	0.03710		mg/l	0.01000	0.00341	1	04/20/18 09:20	04/23/18 16:48	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.011		mg/l	0.010	0.010	1		04/23/18 16:48	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02
 Client ID: RMW03_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	2.87		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00098	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00328		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.06168		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	0.00015	J	mg/l	0.00050	0.00010	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	0.00007	J	mg/l	0.00020	0.00005	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Calcium, Dissolved	107.		mg/l	0.100	0.0394	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00616		mg/l	0.00100	0.00017	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00486		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00951		mg/l	0.00100	0.00038	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Iron, Dissolved	7.09		mg/l	0.0500	0.0191	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Lead, Dissolved	0.00597		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	15.4		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.2866		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:30	EPA 7470A	1,7470A	MG
Nickel, Dissolved	0.00758		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Potassium, Dissolved	13.9		mg/l	0.100	0.0309	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Sodium, Dissolved	456.		mg/l	0.100	0.0293	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	0.00682		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM
Zinc, Dissolved	0.02183		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/23/18 14:34	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
 Client ID: RMW04_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5.68		mg/l	0.0100	0.00327	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Antimony, Total	0.00320	J	mg/l	0.00400	0.00042	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00301		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Barium, Total	0.08937		mg/l	0.00050	0.00017	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00035	J	mg/l	0.00050	0.00010	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00032		mg/l	0.00020	0.00005	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Calcium, Total	66.9		mg/l	0.100	0.0394	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Chromium, Total	0.01473		mg/l	0.00100	0.00017	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00658		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Copper, Total	0.02924		mg/l	0.00100	0.00038	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Iron, Total	10.1		mg/l	0.0500	0.0191	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Lead, Total	0.02750		mg/l	0.00100	0.00034	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Magnesium, Total	7.12		mg/l	0.0700	0.0242	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Manganese, Total	0.2336		mg/l	0.00250	0.00044	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:13	EPA 7470A	1,7470A	MG
Nickel, Total	0.01127		mg/l	0.00200	0.00055	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Potassium, Total	13.1		mg/l	0.100	0.0309	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Sodium, Total	214.		mg/l	0.100	0.0293	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Vanadium, Total	0.01356		mg/l	0.00500	0.00157	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
Zinc, Total	0.06512		mg/l	0.01000	0.00341	1	04/20/18 09:20	04/23/18 16:51	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.015		mg/l	0.010	0.010	1		04/23/18 16:51	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
 Client ID: RMW04_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0204		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00328	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00107		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.03119		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	0.00027		mg/l	0.00020	0.00005	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Calcium, Dissolved	66.7		mg/l	0.100	0.0394	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00050	J	mg/l	0.00100	0.00017	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00312		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00552		mg/l	0.00100	0.00038	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Iron, Dissolved	0.0325	J	mg/l	0.0500	0.0191	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Lead, Dissolved	0.00138		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	6.12		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.1008		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:32	EPA 7470A	1,7470A	MG
Nickel, Dissolved	0.00348		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Potassium, Dissolved	13.5		mg/l	0.100	0.0309	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Sodium, Dissolved	238.		mg/l	0.100	0.0293	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM
Zinc, Dissolved	0.00845	J	mg/l	0.01000	0.00341	1	04/20/18 13:00	04/23/18 14:38	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	28.5		mg/l	0.0100	0.00327	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Antimony, Total	0.00311	J	mg/l	0.00400	0.00042	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Arsenic, Total	0.05184		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Barium, Total	0.1424		mg/l	0.00050	0.00017	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00159		mg/l	0.00050	0.00010	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00068		mg/l	0.00020	0.00005	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Calcium, Total	133.		mg/l	0.100	0.0394	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Chromium, Total	0.1136		mg/l	0.00100	0.00017	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Cobalt, Total	0.02281		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Copper, Total	0.1086		mg/l	0.00100	0.00038	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Iron, Total	70.7		mg/l	0.0500	0.0191	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Lead, Total	0.05049		mg/l	0.00100	0.00034	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Magnesium, Total	33.5		mg/l	0.0700	0.0242	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Manganese, Total	0.8740		mg/l	0.00250	0.00044	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:15	EPA 7470A	1,7470A	MG
Nickel, Total	0.05910		mg/l	0.00200	0.00055	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Potassium, Total	14.2		mg/l	0.100	0.0309	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Selenium, Total	0.00648		mg/l	0.00500	0.00173	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Silver, Total	0.00021	J	mg/l	0.00040	0.00016	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Sodium, Total	716.		mg/l	1.00	0.293	10	04/20/18 09:20	04/23/18 16:59	EPA 3005A	1,6020A	AM
Thallium, Total	0.00020	J	mg/l	0.00050	0.00014	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Vanadium, Total	0.08062		mg/l	0.00500	0.00157	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
Zinc, Total	0.1971		mg/l	0.01000	0.00341	1	04/20/18 09:20	04/23/18 16:01	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.11		mg/l	0.010	0.010	1		04/23/18 16:01	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00170		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.07644		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	0.00015	J	mg/l	0.00020	0.00005	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Calcium, Dissolved	135.		mg/l	0.100	0.0394	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00088	J	mg/l	0.00100	0.00017	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00238		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00048	J	mg/l	0.00100	0.00038	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Iron, Dissolved	0.0250	J	mg/l	0.0500	0.0191	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	24.6		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.4380		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:34	EPA 7470A	1,7470A	MG
Nickel, Dissolved	0.00222		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Potassium, Dissolved	13.0		mg/l	0.100	0.0309	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Sodium, Dissolved	710.		mg/l	1.00	0.293	10	04/20/18 13:00	04/23/18 16:55	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/23/18 14:42	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00590	J	mg/l	0.0100	0.00327	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Chromium, Total	0.00034	J	mg/l	0.00100	0.00017	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Manganese, Total	ND		mg/l	0.00250	0.00044	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:17	EPA 7470A	1,7470A	MG
Nickel, Total	ND		mg/l	0.00200	0.00055	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Sodium, Total	0.0898	J	mg/l	0.100	0.0293	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/20/18 09:20	04/23/18 16:44	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		04/23/18 16:44	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00082	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00035	J	mg/l	0.00100	0.00017	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00077	J	mg/l	0.00100	0.00038	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:36	EPA 7470A	1,7470A	MG
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Sodium, Dissolved	0.120		mg/l	0.100	0.0293	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/23/18 16:40	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1107937-1									
Mercury, Dissolved	ND	mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:18	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1107939-1									
Mercury, Total	ND	mg/l	0.00020	0.00006	1	04/19/18 11:58	04/19/18 16:00	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1108284-1									
Aluminum, Total	ND	mg/l	0.0100	0.00327	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Antimony, Total	0.00063 J	mg/l	0.00400	0.00042	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Barium, Total	ND	mg/l	0.00050	0.00017	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Beryllium, Total	ND	mg/l	0.00050	0.00010	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Calcium, Total	ND	mg/l	0.100	0.0394	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Chromium, Total	ND	mg/l	0.00100	0.00017	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Cobalt, Total	ND	mg/l	0.00050	0.00016	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Copper, Total	ND	mg/l	0.00100	0.00038	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Iron, Total	ND	mg/l	0.0500	0.0191	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Lead, Total	ND	mg/l	0.00100	0.00034	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Magnesium, Total	ND	mg/l	0.0700	0.0242	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Manganese, Total	0.00229 J	mg/l	0.00250	0.00044	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Nickel, Total	ND	mg/l	0.00200	0.00055	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Potassium, Total	ND	mg/l	0.100	0.0309	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Sodium, Total	0.0462	J	mg/l	0.100	0.0293	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/20/18 09:20	04/23/18 14:58	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1108378-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Antimony, Dissolved	0.00206	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Sodium, Dissolved	0.0474	J	mg/l	0.100	0.0293	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/23/18 14:11	1,6020A	AM

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1107937-2								
Mercury, Dissolved	98		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1107939-2								
Mercury, Total	97		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1108284-2					
Aluminum, Total	116	-	80-120	-	
Antimony, Total	109	-	80-120	-	
Arsenic, Total	116	-	80-120	-	
Barium, Total	110	-	80-120	-	
Beryllium, Total	108	-	80-120	-	
Cadmium, Total	115	-	80-120	-	
Calcium, Total	110	-	80-120	-	
Chromium, Total	111	-	80-120	-	
Cobalt, Total	110	-	80-120	-	
Copper, Total	114	-	80-120	-	
Iron, Total	114	-	80-120	-	
Lead, Total	113	-	80-120	-	
Magnesium, Total	112	-	80-120	-	
Manganese, Total	110	-	80-120	-	
Nickel, Total	108	-	80-120	-	
Potassium, Total	109	-	80-120	-	
Selenium, Total	113	-	80-120	-	
Silver, Total	109	-	80-120	-	
Sodium, Total	117	-	80-120	-	
Thallium, Total	112	-	80-120	-	
Vanadium, Total	110	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1108284-2					
Zinc, Total	115	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1108378-2					
Aluminum, Dissolved	120	-	80-120	-	
Antimony, Dissolved	118	-	80-120	-	
Arsenic, Dissolved	116	-	80-120	-	
Barium, Dissolved	114	-	80-120	-	
Beryllium, Dissolved	105	-	80-120	-	
Cadmium, Dissolved	116	-	80-120	-	
Calcium, Dissolved	113	-	80-120	-	
Chromium, Dissolved	114	-	80-120	-	
Cobalt, Dissolved	113	-	80-120	-	
Copper, Dissolved	117	-	80-120	-	
Iron, Dissolved	118	-	80-120	-	
Lead, Dissolved	117	-	80-120	-	
Magnesium, Dissolved	115	-	80-120	-	
Manganese, Dissolved	112	-	80-120	-	
Nickel, Dissolved	112	-	80-120	-	
Potassium, Dissolved	109	-	80-120	-	
Selenium, Dissolved	124	Q	80-120	-	
Silver, Dissolved	115	-	80-120	-	
Sodium, Dissolved	117	-	80-120	-	
Thallium, Dissolved	113	-	80-120	-	
Vanadium, Dissolved	113	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1108378-2					
Zinc, Dissolved	116	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1107937-3 QC Sample: L1813566-01 Client ID: RMW02_041818												
Mercury, Dissolved	ND	0.005	0.00488	98	-	-	-	-	75-125	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1107939-3 QC Sample: L1813566-01 Client ID: RMW02_041818												
Mercury, Total	0.00007J	0.005	0.00490	98	-	-	-	-	75-125	-	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108284-3 QC Sample: L1813566-01 Client ID: RMW02_041818									
Aluminum, Total	58.6	2	72.2	680	Q	-	75-125	-	20
Antimony, Total	0.00137J	0.5	0.2419	48	Q	-	75-125	-	20
Arsenic, Total	0.05553	0.12	0.1717	97		-	75-125	-	20
Barium, Total	0.2367	2	2.555	116		-	75-125	-	20
Beryllium, Total	0.00418	0.05	0.05740	106		-	75-125	-	20
Cadmium, Total	0.00117	0.051	0.06292	121		-	75-125	-	20
Calcium, Total	151.	10	172	210	Q	-	75-125	-	20
Chromium, Total	0.2200	0.2	0.4626	121		-	75-125	-	20
Cobalt, Total	0.08041	0.5	0.6407	112		-	75-125	-	20
Copper, Total	0.2467	0.25	0.5647	127	Q	-	75-125	-	20
Iron, Total	174.	1	185	1100	Q	-	75-125	-	20
Lead, Total	0.1719	0.51	0.7973	123		-	75-125	-	20
Magnesium, Total	49.9	10	67.7	178	Q	-	75-125	-	20
Manganese, Total	2.276	0.5	3.057	156	Q	-	75-125	-	20
Nickel, Total	0.1364	0.5	0.7113	115		-	75-125	-	20
Potassium, Total	15.8	10	27.2	114		-	75-125	-	20
Selenium, Total	0.0131	0.12	0.0937	67	Q	-	75-125	-	20
Silver, Total	0.00030J	0.05	0.05597	112		-	75-125	-	20
Sodium, Total	732.	10	725	0	Q	-	75-125	-	20
Thallium, Total	0.00032J	0.12	0.1352	113		-	75-125	-	20
Vanadium, Total	0.1690	0.5	0.7405	114		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108284-3 QC Sample: L1813566-01 Client ID: RMW02_041818									
Zinc, Total	0.4083	0.5	1.098	138	Q	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108378-3 QC Sample: L1813566-01 Client ID: RMW02_041818									
Aluminum, Dissolved	ND	2	2.24	112	-	-	75-125	-	20
Antimony, Dissolved	0.00089J	0.5	0.6101	122	-	-	75-125	-	20
Arsenic, Dissolved	0.00171	0.12	0.1350	111	-	-	75-125	-	20
Barium, Dissolved	0.08584	2	2.243	108	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05391	108	-	-	75-125	-	20
Cadmium, Dissolved	0.00019J	0.051	0.05824	114	-	-	75-125	-	20
Calcium, Dissolved	151.	10	145	0	Q	-	75-125	-	20
Chromium, Dissolved	0.00028J	0.2	0.2188	109	-	-	75-125	-	20
Cobalt, Dissolved	0.00261	0.5	0.5291	105	-	-	75-125	-	20
Copper, Dissolved	0.00082J	0.25	0.2737	109	-	-	75-125	-	20
Iron, Dissolved	0.0357J	1	1.22	122	-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5567	109	-	-	75-125	-	20
Magnesium, Dissolved	27.4	10	35.5	81	-	-	75-125	-	20
Manganese, Dissolved	0.5115	0.5	0.9861	95	-	-	75-125	-	20
Nickel, Dissolved	0.00264	0.5	0.5255	104	-	-	75-125	-	20
Potassium, Dissolved	14.5	10	23.3	88	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.128	107	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05364	107	-	-	75-125	-	20
Sodium, Dissolved	708.	10	708	0	Q	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1298	108	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.5517	110	-	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108378-3 QC Sample: L1813566-01 Client ID: RMW02_041818									
Zinc, Dissolved	ND	0.5	0.5401	108	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1107937-4 QC Sample: L1813566-01 Client ID: RMW02_041818						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1107939-4 QC Sample: L1813566-01 Client ID: RMW02_041818						
Mercury, Total	0.00007J	0.00008J	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108284-4 QC Sample: L1813566-01 Client ID: RMW02_041818					
Aluminum, Total	58.6	58.0	mg/l	1	20
Antimony, Total	0.00137J	0.00189J	mg/l	NC	20
Arsenic, Total	0.05553	0.05464	mg/l	2	20
Barium, Total	0.2367	0.2314	mg/l	2	20
Beryllium, Total	0.00418	0.00413	mg/l	1	20
Cadmium, Total	0.00117	0.00113	mg/l	3	20
Calcium, Total	151.	146	mg/l	3	20
Chromium, Total	0.2200	0.2135	mg/l	3	20
Cobalt, Total	0.08041	0.07811	mg/l	3	20
Copper, Total	0.2467	0.2423	mg/l	2	20
Iron, Total	174.	171	mg/l	2	20
Lead, Total	0.1719	0.1678	mg/l	2	20
Magnesium, Total	49.9	49.2	mg/l	1	20
Manganese, Total	2.276	2.231	mg/l	2	20
Nickel, Total	0.1364	0.1334	mg/l	2	20
Potassium, Total	15.8	15.3	mg/l	3	20
Selenium, Total	0.0131	0.0118	mg/l	10	20
Silver, Total	0.00030J	0.00032J	mg/l	NC	20
Thallium, Total	0.00032J	0.00044J	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108284-4 QC Sample: L1813566-01 Client ID: RMW02_041818					
Vanadium, Total	0.1690	0.1675	mg/l	1	20
Zinc, Total	0.4083	0.4042	mg/l	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108284-4 QC Sample: L1813566-01 Client ID: RMW02_041818					
Sodium, Total	732.	680	mg/l	7	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108378-4 QC Sample: L1813566-01 Client ID: RMW02_041818					
Aluminum, Dissolved	ND	0.00375J	mg/l	NC	20
Antimony, Dissolved	0.00089J	0.00175J	mg/l	NC	20
Arsenic, Dissolved	0.00171	0.00189	mg/l	10	20
Barium, Dissolved	0.08584	0.08551	mg/l	0	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	0.00019J	0.00020	mg/l	NC	20
Calcium, Dissolved	151.	149	mg/l	1	20
Chromium, Dissolved	0.00028J	0.00038J	mg/l	NC	20
Cobalt, Dissolved	0.00261	0.00258	mg/l	1	20
Copper, Dissolved	0.00082J	0.00125	mg/l	NC	20
Iron, Dissolved	0.0357J	0.0480J	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	27.4	26.6	mg/l	3	20
Manganese, Dissolved	0.5115	0.5032	mg/l	2	20
Nickel, Dissolved	0.00264	0.00233	mg/l	12	20
Potassium, Dissolved	14.5	14.2	mg/l	2	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Thallium, Dissolved	ND	0.00019J	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108378-4 QC Sample: L1813566-01 Client ID: RMW02_041818					
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1108378-4 QC Sample: L1813566-01 Client ID: RMW02_041818					
Sodium, Dissolved	708.	723	mg/l	2	20

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-01

Client ID: RMW02_041818

Sample Location: NEW YORK, NY

Date Collected: 04/18/18 10:00

Date Received: 04/18/18

Field Prep: Field Filtered
(Dissolved Metals)Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/19/18 11:25	04/19/18 15:31	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/19/18 05:25	04/19/18 05:38	1,7196A	UN



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-02

Client ID: RMW03_041818

Sample Location: NEW YORK, NY

Date Collected: 04/18/18 15:25

Date Received: 04/18/18

Field Prep: Field Filtered
(Dissolved Metals)

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/19/18 11:25	04/19/18 15:34	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/19/18 05:25	04/19/18 05:39	1,7196A	UN



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-03
Client ID: RMW04_041818
Sample Location: NEW YORK, NY

Date Collected: 04/18/18 12:25
Date Received: 04/18/18
Field Prep: Field Filtered
(Dissolved Metals)

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	04/19/18 11:25	04/19/18 15:36	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/19/18 05:25	04/19/18 05:39	1,7196A	UN



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-04
 Client ID: RGWDUP01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 11:11
 Date Received: 04/18/18
 Field Prep: Field Filtered
 (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/19/18 11:25	04/19/18 15:48	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/19/18 05:25	04/19/18 05:39	1,7196A	UN



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

SAMPLE RESULTS

Lab ID: L1813566-05
 Client ID: RGWFB01_041818
 Sample Location: NEW YORK, NY

Date Collected: 04/18/18 14:15
 Date Received: 04/18/18
 Field Prep: Field Filtered
 (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/24/18 12:55	04/24/18 16:25	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/19/18 05:25	04/19/18 05:40	1,7196A	UN



Project Name: 4650 BROADWAY

Lab Number: L1813566

Project Number: 170505502

Report Date: 04/25/18

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1107787-1									
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	04/19/18 05:25	04/19/18 05:37	1,7196A	UN
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1107873-1									
Cyanide, Total	ND	mg/l	0.005	0.001	1	04/19/18 11:25	04/19/18 15:07	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1109394-1									
Cyanide, Total	ND	mg/l	0.005	0.001	1	04/24/18 12:55	04/24/18 16:21	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1107787-2								
Chromium, Hexavalent	96		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1107873-2 WG1107873-3								
Cyanide, Total	90		92		85-115	2		20
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1109394-2 WG1109394-3								
Cyanide, Total	103		100		85-115	3		20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1107787-4 QC Sample: L1813566-05 Client ID: RGWFB01_041818												
Chromium, Hexavalent	ND	0.1	0.106	106		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1107873-4 WG1107873-5 QC Sample: L1813566-01 Client ID: RMW02_041818												
Cyanide, Total	ND	0.2	0.181	90		0.180	90		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1109394-4 WG1109394-5 QC Sample: L1813566-05 Client ID: RGWFB01_041818												
Cyanide, Total	ND	0.2	0.207	104		0.204	102		80-120	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813566

Report Date: 04/25/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1107787-3 QC Sample: L1813566-01 Client ID: RMW02_041818						
Chromium, Hexavalent	ND	0.003J	mg/l	NC		20

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04251818:15
Lab Number: L1813566
Report Date: 04/25/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent
E	Absent
F	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813566-01A	Vial HCl preserved	E	NA		2.3	Y	Absent		NYTCL-8260(14)
L1813566-01B	Vial HCl preserved	E	NA		2.3	Y	Absent		NYTCL-8260(14)
L1813566-01C	Vial HCl preserved	E	NA		2.3	Y	Absent		NYTCL-8260(14)
L1813566-01D	Plastic 250ml Trizma preserved	E	NA		2.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-01E	Plastic 250ml Trizma preserved	E	NA		2.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-01F	Plastic 250ml Trizma preserved	E	NA		2.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-01G	Plastic 250ml HNO3 preserved	E	<2	<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)
L1813566-01H	Plastic 250ml HNO3 preserved	E	<2	<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)
L1813566-01I	Amber 500ml unpreserved	E	7	7	2.3	Y	Absent		NYTCL-8081(7)

*Values in parentheses indicate holding time in days

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04251818:15
Lab Number: L1813566
Report Date: 04/25/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813566-01J	Amber 500ml unpreserved	E	7	7	2.3	Y	Absent		NYTCL-8081(7)
L1813566-01K	Amber 500ml unpreserved	E	7	7	2.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813566-01L	Amber 500ml unpreserved	E	7	7	2.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813566-01M	Amber 1000ml unpreserved	E	7	7	2.3	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-01N	Amber 1000ml unpreserved	E	7	7	2.3	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-01O	Amber 1000ml unpreserved	E	7	7	2.3	Y	Absent		HERB-APA(7)
L1813566-01P	Amber 1000ml unpreserved	E	7	7	2.3	Y	Absent		HERB-APA(7)
L1813566-01Q	Amber 1000ml unpreserved	E	7	7	2.3	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-01R	Amber 1000ml unpreserved	E	7	7	2.3	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-01S	Plastic 500ml unpreserved	E	7	7	2.3	Y	Absent		HEXCR-7196(1)
L1813566-01T	Plastic 250ml NaOH preserved	E	>12	>12	2.3	Y	Absent		TCN-9010(14)
L1813566-02A	Vial HCl preserved	B	NA		2.5	Y	Absent		NYTCL-8260(14)
L1813566-02B	Vial HCl preserved	B	NA		2.5	Y	Absent		NYTCL-8260(14)
L1813566-02C	Vial HCl preserved	B	NA		2.5	Y	Absent		NYTCL-8260(14)
L1813566-02G	Plastic 250ml HNO3 preserved	B	<2	<2	2.5	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)
L1813566-02H	Plastic 250ml HNO3 preserved	B	<2	<2	2.5	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)
L1813566-02I	Amber 500ml unpreserved	B	7	7	2.5	Y	Absent		NYTCL-8081(7)
L1813566-02J	Amber 500ml unpreserved	B	7	7	2.5	Y	Absent		NYTCL-8081(7)
L1813566-02K	Amber 500ml unpreserved	B	7	7	2.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813566-02L	Amber 500ml unpreserved	B	7	7	2.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04251818:15
Lab Number: L1813566
Report Date: 04/25/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813566-02M	Amber 1000ml unpreserved	B	7	7	2.5	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-02N	Amber 1000ml unpreserved	B	7	7	2.5	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-02O	Amber 1000ml unpreserved	B	7	7	2.5	Y	Absent		HERB-APA(7)
L1813566-02P	Amber 1000ml unpreserved	B	7	7	2.5	Y	Absent		HERB-APA(7)
L1813566-02Q	Amber 1000ml unpreserved	B	7	7	2.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-02R	Amber 1000ml unpreserved	B	7	7	2.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-02S	Plastic 500ml unpreserved	B	7	7	2.5	Y	Absent		HEXCR-7196(1)
L1813566-02T	Plastic 250ml NaOH preserved	B	>12	>12	2.5	Y	Absent		TCN-9010(14)
L1813566-03A	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L1813566-03B	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L1813566-03C	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L1813566-03D	Plastic 250ml Trizma preserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-03E	Plastic 250ml Trizma preserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-03F	Plastic 250ml Trizma preserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-03G	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	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)
L1813566-03H	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	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)
L1813566-03I	Amber 500ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8081(7)
L1813566-03J	Amber 500ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8081(7)
L1813566-03K	Amber 500ml unpreserved	A	7	7	2.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813566-03L	Amber 500ml unpreserved	A	7	7	2.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04251818:15
Lab Number: L1813566
Report Date: 04/25/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813566-03M	Amber 1000ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-03N	Amber 1000ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-03O	Amber 1000ml unpreserved	A	7	7	2.7	Y	Absent		HERB-APA(7)
L1813566-03P	Amber 1000ml unpreserved	A	7	7	2.7	Y	Absent		HERB-APA(7)
L1813566-03Q	Amber 1000ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-03R	Amber 1000ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-03S	Plastic 500ml unpreserved	A	7	7	2.7	Y	Absent		HEXCR-7196(1)
L1813566-03T	Plastic 250ml NaOH preserved	A	>12	>12	2.7	Y	Absent		TCN-9010(14)
L1813566-04A	Vial HCl preserved	C	NA		3.6	Y	Absent		NYTCL-8260(14)
L1813566-04B	Vial HCl preserved	C	NA		3.6	Y	Absent		NYTCL-8260(14)
L1813566-04C	Vial HCl preserved	C	NA		3.6	Y	Absent		NYTCL-8260(14)
L1813566-04D	Plastic 250ml Trizma preserved	C	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-04E	Plastic 250ml Trizma preserved	C	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-04F	Plastic 250ml Trizma preserved	C	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-04G	Plastic 250ml HNO3 preserved	C	<2	<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)
L1813566-04H	Plastic 250ml HNO3 preserved	C	<2	<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)
L1813566-04I	Amber 500ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8081(7)
L1813566-04J	Amber 500ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8081(7)
L1813566-04K	Amber 500ml unpreserved	C	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813566-04L	Amber 500ml unpreserved	C	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04251818:15
Lab Number: L1813566
Report Date: 04/25/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813566-04M	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-04N	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-04O	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		HERB-APA(7)
L1813566-04P	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		HERB-APA(7)
L1813566-04Q	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-04R	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-04S	Plastic 500ml unpreserved	C	7	7	3.6	Y	Absent		HEXCR-7196(1)
L1813566-04T	Plastic 250ml NaOH preserved	C	>12	>12	3.6	Y	Absent		TCN-9010(14)
L1813566-05A	Vial HCl preserved	D	NA		4.9	Y	Absent		NYTCL-8260(14)
L1813566-05B	Vial HCl preserved	D	NA		4.9	Y	Absent		NYTCL-8260(14)
L1813566-05C	Vial HCl preserved	D	NA		4.9	Y	Absent		NYTCL-8260(14)
L1813566-05D	Plastic 250ml Trizma preserved	D	NA		4.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-05E	Plastic 250ml Trizma preserved	D	NA		4.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-05F	Plastic 250ml Trizma preserved	D	NA		4.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-05G	Plastic 250ml HNO3 preserved	D	<2	<2	4.9	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)
L1813566-05H	Plastic 250ml HNO3 preserved	D	<2	<2	4.9	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1813566-05I	Amber 500ml unpreserved	D	7	7	4.9	Y	Absent		NYTCL-8081(7)
L1813566-05J	Amber 500ml unpreserved	D	7	7	4.9	Y	Absent		NYTCL-8081(7)
L1813566-05K	Amber 500ml unpreserved	D	7	7	4.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813566-05L	Amber 500ml unpreserved	D	7	7	4.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04251818:15
Lab Number: L1813566
Report Date: 04/25/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813566-05M	Amber 1000ml unpreserved	D	7	7	4.9	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-05N	Amber 1000ml unpreserved	D	7	7	4.9	Y	Absent		NYTCL-8082-1200ML(7)
L1813566-05O	Amber 1000ml unpreserved	D	7	7	4.9	Y	Absent		HERB-APA(7)
L1813566-05P	Amber 1000ml unpreserved	D	7	7	4.9	Y	Absent		HERB-APA(7)
L1813566-05Q	Amber 1000ml unpreserved	D	7	7	4.9	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-05R	Amber 1000ml unpreserved	D	7	7	4.9	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813566-05S	Plastic 500ml unpreserved	D	7	7	4.9	Y	Absent		HEXCR-7196(1)
L1813566-05T	Plastic 250ml NaOH preserved	D	>12	>12	4.9	Y	Absent		TCN-9010(14)
L1813566-06A	Vial HCl preserved	D	NA		4.9	Y	Absent		NYTCL-8260(14)
L1813566-06B	Vial HCl preserved	D	NA		4.9	Y	Absent		NYTCL-8260(14)
L1813566-06C	Plastic 250ml Trizma preserved	D	NA		4.9	Y	Absent		HOLD-537(14)
L1813566-07A	Plastic 250ml Trizma preserved	F	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-07B	Plastic 250ml Trizma preserved	F	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813566-07C	Plastic 250ml Trizma preserved	F	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)

Container Comments

L1813566-02P This container is not available for check in/out because it has a status of EMPTY

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
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Report Date: 04/25/18

Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns has been reported 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813566
Report Date: 04/25/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

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 its 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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <u>1</u>	Date Rec'd in Lab <u>4/19/18</u>	ALPHA Job # <u>L1813565</u>			
		of <u>1</u>					
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables	Billing Information		
Client Information		Project Name: <u>4650 Broadway</u>		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input checked="" type="checkbox"/> Other <u>Standard excel, PPI</u>	<input checked="" type="checkbox"/> Same as Client Info PO #		
Client: <u>Langan Engineering</u>		Project # <u>170505501</u>		Regulatory Requirement			
Address: <u>310 West 31st St</u> <u>New York, NY 10001</u>		Project Manager: <u>Brian Goehenaur</u>		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge			
Phone: <u>212-479-5400</u>		ALPHAQuote #:					
Fax: <u>schmedicke@langan.com</u>		Turn-Around Time		Disposal Site Information			
Email: <u>bgoehenaur@langan.com</u>		Standard <input checked="" type="checkbox"/> Due Date:		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
		Rush (only if pre approved) <input type="checkbox"/> # of Days:					
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS			
Other project specific requirements/comments:				Total Bottle Line Total Vol's + SV's, PCB's, TAL metals, Chl and dis/bect, In/Hex chromam total cyrnde Pesticides, herbicides 1,4-dioxane, PCBs			
						Sample Filtration	
Please specify Metals or TAL.				<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Sample Specific Comments	
		Date	Time				
<u>13566.01</u>	<u>RMW02-041818</u>	<u>4/18/18</u>	<u>1000</u>	<u>GW</u>	<u>wh</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>.02</u>	<u>RMW03-041818</u>	↓	<u>1525</u>	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>.03</u>	<u>RMW04-041818</u>	↓	<u>1225</u>	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>.04</u>	<u>RGWDP01-041818</u>	↓	<u>1111</u>	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>.05</u>	<u>RGWFB01-041818</u>	↓	<u>1415</u>	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>.06</u>	<u>RGWTB01-041818</u>	↓	<u>-</u>	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Preservative Code:		Container Code		Westboro: Certification No: MA935		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015			
				Container Type			
				Preservative			
		Relinquished By		Received By			
		Date/Time		Date/Time			
		<u>[Signature]</u>		<u>[Signature]</u>			
		<u>4/18/18 1540</u>		<u>4/18/18 1540</u>			
		<u>4/18/18 1830</u>		<u>Daniel Santos Inc</u>			
		<u>4/19/18 330</u>		<u>[Signature]</u>		<u>4/19/18 0830</u>	



NEW YORK CHAIN OF CUSTODY

Service Centers
 Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
 Albany, NY 12205: 14 Walker Way
 Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Westborough, MA 01581
 8 Walkup Dr.
 TEL: 508-898-9220
 FAX: 508-898-9193

Mansfield, MA 02048
 320 Forbes Blvd
 TEL: 508-822-9300
 FAX: 508-822-3288

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 of 1

Date Rec'd in Lab *4/19/18*

ALPHA Job # *L1813566*

Project Information
 Project Name: *4650 Broadway*
 Project Location: *New York, NY*
 Project # *170909501*
 (Use Project name as Project #)
 Project Manager: *Brian Cochenour*
 ALPHAQuote #:
 Turn-Around Time
 Standard Due Date:
 Rush (only if pre approved) # of Days:

Deliverables
 ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Regulatory Requirement
 NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Billing Information
 Same as Client Info
 PO #

Disposal Site Information
 Please identify below location of applicable disposal facilities.
 Disposal Facility:
 NJ NY
 Other:

Client Information
 Client: *Langan Engineering*
 Address: *300 West 31st St*
New York, NY 10001
 Phone: *212-479-9400*
 Fax: *schmedicke@langan.com*
 Email: *bcochenour@langan.com*

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
** As/MSDS sample collected from RMW06-041918
 * RMW03, 041919 collected today part of yesterday's sample set
 * RMW01, RMW05, RMW07 inherited as they are in bottles. Please name samples in accordance w/ COC*

Please specify Metals or TAL.

ANALYSIS

TEL VOL + SVOL	PCP, TAL metals (lab use only)	TRI/MSX chromatogram	total cyanide, persi	hex, 1,4 dioxane	PFCs
X	X	X	X	X	
X	X	X	X	X	
X	X	X	X	X	
X	X	X	X	X	
X	X	X	X	X	
X	X	X	X	X	
X	X	X	X	X	

Sample Filtration
 Done
 Lab to do
Preservation
 Lab to do
 (Please Specify below)
 Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
<i>13566</i>	<i>RMW01-041918</i>	<i>4/19/18</i>	<i>0950</i>	<i>CU</i>	<i>wh</i>
	<i>RMW05-041918</i>		<i>1630</i>		
	<i>RMW06-041918</i>		<i>1135</i>		
	<i>RMW07-041918</i>		<i>1310</i>		
	<i>RMW08-041918</i>		<i>1425</i>		
	<i>RMW09-041918</i>		<i>1605</i>		
<i>13566-07</i>	<i>RMW03-041918</i>		<i>1525</i>		
	<i>RMW04-041918</i>				
	<i>RMW11-041918</i>				

Preservative Code:
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₃
 K/E = Zn Ac/NaOH
 O = Other

Container Code:
 P = Plastic
 A = Amber Glass
 V = Vial
 G = Glass
 B = Bacteria Cup
 C = Cube
 O = Other
 E = Encore
 D = BOD Bottle

Westboro: Certification No: MA935
 Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	<i>4/19/18 1750</i>	<i>[Signature]</i>	<i>4-19-18 1750</i>
<i>[Signature]</i>	<i>4-19-18 19:10</i>	<i>[Signature]</i>	<i>4/19/18 18:10</i>
<i>[Signature]</i>	<i>4/19/18 23:41</i>	<i>[Signature]</i>	<i>4/19/18 23:45</i>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)



ANALYTICAL REPORT

Lab Number:	L1813827
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Anna Schmiedicke
Phone:	(212) 479-5400
Project Name:	MANHATTANVILLE
Project Number:	005755323
Report Date:	04/26/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1813827-01	CUMW13_041918	WATER	MANHATTAN, NY	04/19/18 10:20	04/19/18
L1813827-02	CUMW12_041918	WATER	MANHATTAN, NY	04/19/18 11:20	04/19/18
L1813827-03	CUMW11_041918	WATER	MANHATTAN, NY	04/19/18 12:25	04/19/18
L1813827-04	DUP01_041918	WATER	MANHATTAN, NY	04/19/18 00:00	04/19/18
L1813827-05	TB01_041918	WATER	MANHATTAN, NY	04/19/18 00:00	04/19/18

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

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

L1813827-02: The sample has elevated detection limits due to the dilution required by the sample matrix (foam).

L1813827-03: The pH of the sample was greater than two; however, the sample was analyzed within the method required holding time.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 04/26/18

ORGANICS

VOLATILES

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-01 D
 Client ID: CUMW13_041918
 Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 10:20
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/25/18 00:35
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
1,3-Dichloropropene, Total	ND		ug/l	10	2.9	20
1,1-Dichloropropene	ND		ug/l	50	14.	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	330		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-01 D

Date Collected: 04/19/18 10:20

Client ID: CUMW13_041918

Date Received: 04/19/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	290		ug/l	50	14.	20
o-Xylene	180		ug/l	50	14.	20
Xylenes, Total	470		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
1,2-Dichloroethene, Total	ND		ug/l	50	14.	20
Dibromomethane	ND		ug/l	100	20.	20
1,2,3-Trichloropropane	ND		ug/l	50	14.	20
Acrylonitrile	ND		ug/l	100	30.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
Vinyl acetate	ND		ug/l	100	20.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
2,2-Dichloropropane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,3-Dichloropropane	ND		ug/l	50	14.	20
1,1,1,2-Tetrachloroethane	ND		ug/l	50	14.	20
Bromobenzene	ND		ug/l	50	14.	20
n-Butylbenzene	21	J	ug/l	50	14.	20
sec-Butylbenzene	23	J	ug/l	50	14.	20
tert-Butylbenzene	ND		ug/l	50	14.	20
o-Chlorotoluene	ND		ug/l	50	14.	20
p-Chlorotoluene	ND		ug/l	50	14.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Hexachlorobutadiene	ND		ug/l	50	14.	20
Isopropylbenzene	85		ug/l	50	14.	20
p-Isopropyltoluene	ND		ug/l	50	14.	20
Naphthalene	600		ug/l	50	14.	20

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-01 D
 Client ID: CUMW13_041918
 Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 10:20
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	260		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
1,3,5-Trimethylbenzene	460		ug/l	50	14.	20
1,2,4-Trimethylbenzene	1500		ug/l	50	14.	20
1,4-Dioxane	ND		ug/l	5000	1200	20
p-Diethylbenzene	320		ug/l	40	14.	20
p-Ethyltoluene	390		ug/l	40	14.	20
1,2,4,5-Tetramethylbenzene	160		ug/l	40	11.	20
Ethyl ether	ND		ug/l	50	14.	20
trans-1,4-Dichloro-2-butene	ND		ug/l	50	14.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-02 D
 Client ID: CUMW12_041918
 Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 11:20
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/25/18 01:01
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
1,3-Dichloropropene, Total	ND		ug/l	10	2.9	20
1,1-Dichloropropene	ND		ug/l	50	14.	20
Bromoform	ND		ug/l	40	13.	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	86		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-02 D

Date Collected: 04/19/18 11:20

Client ID: CUMW12_041918

Date Received: 04/19/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	ND		ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
Xylenes, Total	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
1,2-Dichloroethene, Total	ND		ug/l	50	14.	20
Dibromomethane	ND		ug/l	100	20.	20
1,2,3-Trichloropropane	ND		ug/l	50	14.	20
Acrylonitrile	ND		ug/l	100	30.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	84	J	ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
Vinyl acetate	ND		ug/l	100	20.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
2,2-Dichloropropane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,3-Dichloropropane	ND		ug/l	50	14.	20
1,1,1,2-Tetrachloroethane	ND		ug/l	50	14.	20
Bromobenzene	ND		ug/l	50	14.	20
n-Butylbenzene	ND		ug/l	50	14.	20
sec-Butylbenzene	ND		ug/l	50	14.	20
tert-Butylbenzene	ND		ug/l	50	14.	20
o-Chlorotoluene	ND		ug/l	50	14.	20
p-Chlorotoluene	ND		ug/l	50	14.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Hexachlorobutadiene	ND		ug/l	50	14.	20
Isopropylbenzene	20	J	ug/l	50	14.	20
p-Isopropyltoluene	ND		ug/l	50	14.	20
Naphthalene	87		ug/l	50	14.	20

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-02 D
 Client ID: CUMW12_041918
 Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 11:20
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	67		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
1,3,5-Trimethylbenzene	80		ug/l	50	14.	20
1,2,4-Trimethylbenzene	280		ug/l	50	14.	20
1,4-Dioxane	ND		ug/l	5000	1200	20
p-Diethylbenzene	37	J	ug/l	40	14.	20
p-Ethyltoluene	22	J	ug/l	40	14.	20
1,2,4,5-Tetramethylbenzene	32	J	ug/l	40	11.	20
Ethyl ether	ND		ug/l	50	14.	20
trans-1,4-Dichloro-2-butene	ND		ug/l	50	14.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	96		70-130

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-03 D
 Client ID: CUMW11_041918
 Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 12:25
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/25/18 10:30
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	62	18.	25
1,1-Dichloroethane	ND		ug/l	62	18.	25
Chloroform	ND		ug/l	62	18.	25
Carbon tetrachloride	ND		ug/l	12	3.4	25
1,2-Dichloropropane	3.6	J	ug/l	25	3.4	25
Dibromochloromethane	ND		ug/l	12	3.7	25
1,1,2-Trichloroethane	ND		ug/l	38	12.	25
Tetrachloroethene	ND		ug/l	12	4.5	25
Chlorobenzene	ND		ug/l	62	18.	25
Trichlorofluoromethane	ND		ug/l	62	18.	25
1,2-Dichloroethane	ND		ug/l	12	3.3	25
1,1,1-Trichloroethane	ND		ug/l	62	18.	25
Bromodichloromethane	ND		ug/l	12	4.8	25
trans-1,3-Dichloropropene	ND		ug/l	12	4.1	25
cis-1,3-Dichloropropene	ND		ug/l	12	3.6	25
1,3-Dichloropropene, Total	ND		ug/l	12	3.6	25
1,1-Dichloropropene	ND		ug/l	62	18.	25
Bromoform	ND		ug/l	50	16.	25
1,1,1,2-Tetrachloroethane	ND		ug/l	12	4.2	25
Benzene	4.0	J	ug/l	12	4.0	25
Toluene	ND		ug/l	62	18.	25
Ethylbenzene	1100		ug/l	62	18.	25
Chloromethane	ND		ug/l	62	18.	25
Bromomethane	ND		ug/l	62	18.	25
Vinyl chloride	ND		ug/l	25	1.8	25
Chloroethane	ND		ug/l	62	18.	25
1,1-Dichloroethene	ND		ug/l	12	4.2	25
trans-1,2-Dichloroethene	ND		ug/l	62	18.	25

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-03 D

Date Collected: 04/19/18 12:25

Client ID: CUMW11_041918

Date Received: 04/19/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	12	4.4	25
1,2-Dichlorobenzene	ND		ug/l	62	18.	25
1,3-Dichlorobenzene	ND		ug/l	62	18.	25
1,4-Dichlorobenzene	ND		ug/l	62	18.	25
Methyl tert butyl ether	ND		ug/l	62	18.	25
p/m-Xylene	1200		ug/l	62	18.	25
o-Xylene	48	J	ug/l	62	18.	25
Xylenes, Total	1200	J	ug/l	62	18.	25
cis-1,2-Dichloroethene	ND		ug/l	62	18.	25
1,2-Dichloroethene, Total	ND		ug/l	62	18.	25
Dibromomethane	ND		ug/l	120	25.	25
1,2,3-Trichloropropane	ND		ug/l	62	18.	25
Acrylonitrile	ND		ug/l	120	38.	25
Styrene	ND		ug/l	62	18.	25
Dichlorodifluoromethane	ND		ug/l	120	25.	25
Acetone	120		ug/l	120	36.	25
Carbon disulfide	ND		ug/l	120	25.	25
2-Butanone	ND		ug/l	120	48.	25
Vinyl acetate	ND		ug/l	120	25.	25
4-Methyl-2-pentanone	ND		ug/l	120	25.	25
2-Hexanone	ND		ug/l	120	25.	25
Bromochloromethane	ND		ug/l	62	18.	25
2,2-Dichloropropane	ND		ug/l	62	18.	25
1,2-Dibromoethane	ND		ug/l	50	16.	25
1,3-Dichloropropane	ND		ug/l	62	18.	25
1,1,1,2-Tetrachloroethane	ND		ug/l	62	18.	25
Bromobenzene	ND		ug/l	62	18.	25
n-Butylbenzene	22	J	ug/l	62	18.	25
sec-Butylbenzene	ND		ug/l	62	18.	25
tert-Butylbenzene	ND		ug/l	62	18.	25
o-Chlorotoluene	ND		ug/l	62	18.	25
p-Chlorotoluene	ND		ug/l	62	18.	25
1,2-Dibromo-3-chloropropane	ND		ug/l	62	18.	25
Hexachlorobutadiene	ND		ug/l	62	18.	25
Isopropylbenzene	120		ug/l	62	18.	25
p-Isopropyltoluene	ND		ug/l	62	18.	25
Naphthalene	560		ug/l	62	18.	25

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-03 D
 Client ID: CUMW11_041918
 Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 12:25
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	380		ug/l	62	18.	25
1,2,3-Trichlorobenzene	ND		ug/l	62	18.	25
1,2,4-Trichlorobenzene	ND		ug/l	62	18.	25
1,3,5-Trimethylbenzene	510		ug/l	62	18.	25
1,2,4-Trimethylbenzene	1900		ug/l	62	18.	25
1,4-Dioxane	ND		ug/l	6200	1500	25
p-Diethylbenzene	230		ug/l	50	18.	25
p-Ethyltoluene	640		ug/l	50	18.	25
1,2,4,5-Tetramethylbenzene	120		ug/l	50	14.	25
Ethyl ether	ND		ug/l	62	18.	25
trans-1,4-Dichloro-2-butene	ND		ug/l	62	18.	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	92		70-130

Project Name: MANHATTANVILLE**Lab Number:** L1813827**Project Number:** 005755323**Report Date:** 04/26/18**SAMPLE RESULTS**

Lab ID: L1813827-04 D

Date Collected: 04/19/18 00:00

Client ID: DUP01_041918

Date Received: 04/19/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 04/25/18 01:51

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
1,3-Dichloropropene, Total	ND		ug/l	10	2.9	20
1,1-Dichloropropene	ND		ug/l	50	14.	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	310		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-04 D

Date Collected: 04/19/18 00:00

Client ID: DUP01_041918

Date Received: 04/19/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	270		ug/l	50	14.	20
o-Xylene	180		ug/l	50	14.	20
Xylenes, Total	450		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
1,2-Dichloroethene, Total	ND		ug/l	50	14.	20
Dibromomethane	ND		ug/l	100	20.	20
1,2,3-Trichloropropane	ND		ug/l	50	14.	20
Acrylonitrile	ND		ug/l	100	30.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	31	J	ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
Vinyl acetate	ND		ug/l	100	20.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
2,2-Dichloropropane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,3-Dichloropropane	ND		ug/l	50	14.	20
1,1,1,2-Tetrachloroethane	ND		ug/l	50	14.	20
Bromobenzene	ND		ug/l	50	14.	20
n-Butylbenzene	18	J	ug/l	50	14.	20
sec-Butylbenzene	20	J	ug/l	50	14.	20
tert-Butylbenzene	ND		ug/l	50	14.	20
o-Chlorotoluene	ND		ug/l	50	14.	20
p-Chlorotoluene	ND		ug/l	50	14.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Hexachlorobutadiene	ND		ug/l	50	14.	20
Isopropylbenzene	80		ug/l	50	14.	20
p-Isopropyltoluene	ND		ug/l	50	14.	20
Naphthalene	600		ug/l	50	14.	20

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-04 D
 Client ID: DUP01_041918
 Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 00:00
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	230		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
1,3,5-Trimethylbenzene	420		ug/l	50	14.	20
1,2,4-Trimethylbenzene	1400		ug/l	50	14.	20
1,4-Dioxane	ND		ug/l	5000	1200	20
p-Diethylbenzene	290		ug/l	40	14.	20
p-Ethyltoluene	350		ug/l	40	14.	20
1,2,4,5-Tetramethylbenzene	140		ug/l	40	11.	20
Ethyl ether	ND		ug/l	50	14.	20
trans-1,4-Dichloro-2-butene	ND		ug/l	50	14.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	96		70-130

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-05
 Client ID: TB01_041918
 Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 00:00
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/24/18 19:32
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-05
 Client ID: TB01_041918
 Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 00:00
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

SAMPLE RESULTS

Lab ID: L1813827-05
Client ID: TB01_041918
Sample Location: MANHATTAN, NY

Date Collected: 04/19/18 00:00
Date Received: 04/19/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/24/18 18:16
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05 Batch: WG1109704-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/24/18 18:16
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05 Batch: WG1109704-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/24/18 18:16
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05 Batch: WG1109704-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/24/18 18:16
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05 Batch: WG1109704-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/25/18 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1109800-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/25/18 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1109800-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/25/18 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1109800-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG1109704-3 WG1109704-4								
Methylene chloride	91		92		70-130	1		20
1,1-Dichloroethane	86		86		70-130	0		20
Chloroform	87		85		70-130	2		20
Carbon tetrachloride	77		75		63-132	3		20
1,2-Dichloropropane	87		86		70-130	1		20
Dibromochloromethane	88		88		63-130	0		20
1,1,2-Trichloroethane	90		89		70-130	1		20
Tetrachloroethene	87		87		70-130	0		20
Chlorobenzene	87		88		75-130	1		20
Trichlorofluoromethane	88		85		62-150	3		20
1,2-Dichloroethane	91		89		70-130	2		20
1,1,1-Trichloroethane	85		82		67-130	4		20
Bromodichloromethane	88		87		67-130	1		20
trans-1,3-Dichloropropene	89		88		70-130	1		20
cis-1,3-Dichloropropene	90		89		70-130	1		20
1,1-Dichloropropene	85		85		70-130	0		20
Bromoform	90		92		54-136	2		20
1,1,2,2-Tetrachloroethane	87		89		67-130	2		20
Benzene	90		90		70-130	0		20
Toluene	87		87		70-130	0		20
Ethylbenzene	87		86		70-130	1		20
Chloromethane	100		100		64-130	0		20
Bromomethane	90		95		39-139	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG1109704-3 WG1109704-4								
Vinyl chloride	92		91		55-140	1		20
Chloroethane	88		86		55-138	2		20
1,1-Dichloroethene	89		87		61-145	2		20
trans-1,2-Dichloroethene	89		88		70-130	1		20
Trichloroethene	90		89		70-130	1		20
1,2-Dichlorobenzene	88		88		70-130	0		20
1,3-Dichlorobenzene	87		88		70-130	1		20
1,4-Dichlorobenzene	86		87		70-130	1		20
Methyl tert butyl ether	96		94		63-130	2		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	90		88		70-130	2		20
Dibromomethane	89		86		70-130	3		20
1,2,3-Trichloropropane	78		80		64-130	3		20
Acrylonitrile	92		92		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	100		99		36-147	1		20
Acetone	82		87		58-148	6		20
Carbon disulfide	93		92		51-130	1		20
2-Butanone	86		90		63-138	5		20
Vinyl acetate	94		94		70-130	0		20
4-Methyl-2-pentanone	91		93		59-130	2		20
2-Hexanone	89		92		57-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG1109704-3 WG1109704-4								
Bromochloromethane	90		91		70-130	1		20
2,2-Dichloropropane	92		89		63-133	3		20
1,2-Dibromoethane	91		90		70-130	1		20
1,3-Dichloropropane	87		87		70-130	0		20
1,1,1,2-Tetrachloroethane	89		88		64-130	1		20
Bromobenzene	88		89		70-130	1		20
n-Butylbenzene	84		86		53-136	2		20
sec-Butylbenzene	84		86		70-130	2		20
tert-Butylbenzene	85		86		70-130	1		20
o-Chlorotoluene	87		88		70-130	1		20
p-Chlorotoluene	85		86		70-130	1		20
1,2-Dibromo-3-chloropropane	88		89		41-144	1		20
Hexachlorobutadiene	79		82		63-130	4		20
Isopropylbenzene	85		87		70-130	2		20
p-Isopropyltoluene	87		89		70-130	2		20
Naphthalene	89		92		70-130	3		20
n-Propylbenzene	87		87		69-130	0		20
1,2,3-Trichlorobenzene	89		92		70-130	3		20
1,2,4-Trichlorobenzene	88		89		70-130	1		20
1,3,5-Trimethylbenzene	87		88		64-130	1		20
1,2,4-Trimethylbenzene	88		89		70-130	1		20
1,4-Dioxane	58		106		56-162	59	Q	20
p-Diethylbenzene	91		93		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG1109704-3 WG1109704-4								
p-Ethyltoluene	92		93		70-130	1		20
1,2,4,5-Tetramethylbenzene	93		94		70-130	1		20
Ethyl ether	94		92		59-134	2		20
trans-1,4-Dichloro-2-butene	88		93		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		96		70-130
Toluene-d8	97		99		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1109800-3 WG1109800-4								
Methylene chloride	97		97		70-130	0		20
1,1-Dichloroethane	99		100		70-130	1		20
Chloroform	98		98		70-130	0		20
Carbon tetrachloride	90		91		63-132	1		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	83		83		63-130	0		20
1,1,2-Trichloroethane	93		94		70-130	1		20
Tetrachloroethene	79		81		70-130	3		20
Chlorobenzene	87		87		75-130	0		20
Trichlorofluoromethane	94		95		62-150	1		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	94		94		67-130	0		20
Bromodichloromethane	96		97		67-130	1		20
trans-1,3-Dichloropropene	91		92		70-130	1		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	96		98		70-130	2		20
Bromoform	79		79		54-136	0		20
1,1,2,2-Tetrachloroethane	91		92		67-130	1		20
Benzene	98		98		70-130	0		20
Toluene	87		89		70-130	2		20
Ethylbenzene	89		89		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	100		100		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1109800-3 WG1109800-4								
Vinyl chloride	120		120		55-140	0		20
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	96		98		61-145	2		20
trans-1,2-Dichloroethene	96		97		70-130	1		20
Trichloroethene	92		94		70-130	2		20
1,2-Dichlorobenzene	85		85		70-130	0		20
1,3-Dichlorobenzene	83		84		70-130	1		20
1,4-Dichlorobenzene	83		83		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	96		96		70-130	0		20
Dibromomethane	98		98		70-130	0		20
1,2,3-Trichloropropane	91		93		64-130	2		20
Acrylonitrile	100		100		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	110		110		58-148	0		20
Carbon disulfide	98		99		51-130	1		20
2-Butanone	100		110		63-138	10		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	91		95		59-130	4		20
2-Hexanone	92		94		57-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1109800-3 WG1109800-4								
Bromochloromethane	97		98		70-130	1		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	89		90		70-130	1		20
1,3-Dichloropropane	90		91		70-130	1		20
1,1,1,2-Tetrachloroethane	85		85		64-130	0		20
Bromobenzene	83		83		70-130	0		20
n-Butylbenzene	90		90		53-136	0		20
sec-Butylbenzene	87		87		70-130	0		20
tert-Butylbenzene	85		86		70-130	1		20
o-Chlorotoluene	91		88		70-130	3		20
p-Chlorotoluene	89		87		70-130	2		20
1,2-Dibromo-3-chloropropane	79		83		41-144	5		20
Hexachlorobutadiene	86		84		63-130	2		20
Isopropylbenzene	88		88		70-130	0		20
p-Isopropyltoluene	88		87		70-130	1		20
Naphthalene	100		100		70-130	0		20
n-Propylbenzene	90		90		69-130	0		20
1,2,3-Trichlorobenzene	97		97		70-130	0		20
1,2,4-Trichlorobenzene	89		90		70-130	1		20
1,3,5-Trimethylbenzene	88		87		64-130	1		20
1,2,4-Trimethylbenzene	89		89		70-130	0		20
1,4-Dioxane	118		110		56-162	7		20
p-Diethylbenzene	87		86		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MANHATTANVILLE

Lab Number: L1813827

Project Number: 005755323

Report Date: 04/26/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1109800-3 WG1109800-4								
p-Ethyltoluene	88		88		70-130	0		20
1,2,4,5-Tetramethylbenzene	91		91		70-130	0		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	83		83		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	93		92		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	99		98		70-130

Project Name: MANHATTANVILLE**Lab Number:** L1813827**Project Number:** 005755323**Report Date:** 04/26/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813827-01A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-01B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-01C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-02A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-02B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-02C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-03A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-03B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-03C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-04A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-04B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-04C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-05A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1813827-05B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)

Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: MANHATTANVILLE
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Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns has been reported 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: MANHATTANVILLE
Project Number: 005755323

Lab Number: L1813827
Report Date: 04/26/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page		Date Rec'd in Lab	4/19/18	ALPHA Job # L1813827
			1 of 1	Project Information		Deliverables	
Client Information		Project Name: <u>Manhattanville</u>		<input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #	
Client: <u>LANGAN</u>		Project Location: <u>Manhattan NY</u>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
Address: <u>360 West 31st St NY, NY 10001</u>		Project # <u>005755323</u>					
Phone: <u>312 479 5400</u>		(Use Project name as Project #) <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	
Fax:		Project Manager: <u>Anna Schmiedicke</u>					
Email: <u>ASCHMIEDICKE@Langan.com</u>		ALPHAQuote #:		T o t a l B o t t l e		Sample Specific Comments	
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:					
Please specify Metals or TAL.							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials		
		Date	Time				
<u>15827-01</u>	<u>CUMW13-041918</u>	<u>4/19/18</u>	<u>1020</u>	<u>GW</u>	<u>JA</u>	<u>X</u>	
<u>02</u>	<u>CUMW12-041918</u>	<u>↓</u>	<u>1100</u>	<u>↓</u>	<u>↓</u>	<u>X</u>	
<u>03</u>	<u>CUMW11-041918</u>	<u>↓</u>	<u>1200</u>	<u>↓</u>	<u>↓</u>	<u>X</u>	
<u>04</u>	<u>DUP01-041918</u>	<u>↓</u>	<u>1200</u>	<u>↓</u>	<u>↓</u>	<u>X</u>	
<u>05</u>	<u>T501-041918</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>X</u>	
Preservative Code:		Container Code		Westboro: Certification No: MA935		Container Type	
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015		Preservative	
		Relinquished By:		Date/Time		Received By:	
		<u>[Signature]</u>		<u>4/19/18 1615</u>		<u>[Signature]</u>	
		<u>[Signature]</u>		<u>4/19/18 1815</u>		<u>[Signature]</u>	
		<u>[Signature]</u>		<u>4/19/18 2305</u>		<u>[Signature]</u>	
Form No: 01-25 HC (rev. 30-Sept-2013)		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)					



ANALYTICAL REPORT

Lab Number:	L1813851
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	04/27/18

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1813851-01	RMW01_041918	WATER	NEW YORK, NY	04/19/18 09:50	04/19/18
L1813851-02	RMW05_041918	WATER	NEW YORK, NY	04/19/18 16:30	04/19/18
L1813851-03	RMW06_041918	WATER	NEW YORK, NY	04/19/18 11:35	04/19/18
L1813851-04	RMW07_041918	WATER	NEW YORK, NY	04/19/18 13:40	04/19/18
L1813851-05	RMW08_041918	WATER	NEW YORK, NY	04/19/18 14:25	04/19/18
L1813851-06	RMW09_041918	WATER	NEW YORK, NY	04/19/18 16:05	04/19/18
L1813851-07	RGWTB01_041918	WATER	NEW YORK, NY	04/19/18 00:00	04/19/18
L1813851-08	FIELD BLANK	WATER	NEW YORK, NY	04/19/18 00:00	04/19/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The project number was specified by the client.

L1813851-04: The collection date and time on the chain of custody was 19-APR-18 13:10; however, the collection date/time on the container label was 19-APR-18 13:40. At the client's request, the collection date/time is reported as 19-APR-18 13:40.

L1813851-08: A sample identified as "FIELD BLANK" was received but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

Perfluorinated Alkyl Acids by Isotope Dilution

Extracted Internal Standard recoveries for the following samples were outside the acceptance criteria:

L1813851-01: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (171%) and perfluoro[13c8]octanesulfonamide (m8fosa) (19%)

L1813851-02: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (192%) and perfluoro[13c8]octanesulfonamide (m8fosa) (29%)

L1813851-03: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (169%) and perfluoro[13c8]octanesulfonamide (m8fosa) (21%)

L1813851-04: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (187%); 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (195%); and perfluoro[13c8]octanesulfonamide (m8fosa) (44%)

L1813851-05: perfluoro[13c4]butanoic acid (mpfba) (45%); 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (256%); and 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (183%)

L1813851-06: perfluoro[13c8]octanesulfonamide (m8fosa) (29%)

WG1108825-1: 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (152%) and perfluoro[13c8]octanesulfonamide (m8fosa) (39%)

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Case Narrative (continued)

WG1108825-2: perfluoro[13c8]octanesulfonamide (m8fosa) (22%)

WG1108825-4: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (187%) and perfluoro[13c8]octanesulfonamide (m8fosa) (26%)

WG1108825-5: 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (183%) and perfluoro[13c8]octanesulfonamide (m8fosa) (30%)

Total Metals

The WG1108397-7/-8 MS/MSD recoveries, performed on L1813851-03, are outside the acceptance criteria for aluminum (144%/148%). A post digestion spike was performed and was within acceptance criteria.

The WG1108397-7/-8 MS/MSD recoveries for calcium (MS 70%), manganese (31%/37%), and sodium (0%/0%), performed on L1813851-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

Dissolved Metals

L1813851-02: The sample has elevated detection limits for lead and thallium due to the dilution required by the high concentrations of target and non-target elements.

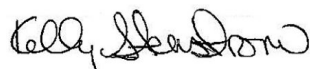
The WG1108387-3/-4 MS/MSD recoveries for calcium (MS 60%), manganese (15%/22%), and sodium (0%/0%), performed on L1813851-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

Cyanide, Total

The WG1108205-5 MSD recovery (241%), performed on L1813851-03, is outside the acceptance criteria; however, the associated LCS recovery is within criteria. No further action was taken. The MS/MSD RPD (88%) is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 04/27/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01 D
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/25/18 10:55
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	1.3	10
1,2-Dichloropropane	3.8	J	ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	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	1.3	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
1,3-Dichloropropene, Total	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	1.7	10
Benzene	26		ug/l	5.0	1.6	10
Toluene	11	J	ug/l	25	7.0	10
Ethylbenzene	380		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	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01 D

Date Collected: 04/19/18 09:50

Client ID: RMW01_041918

Date Received: 04/19/18

Sample Location: NEW YORK, NY

Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	5.0	1.8	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
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	1600		ug/l	25	7.0	10
o-Xylene	620		ug/l	25	7.0	10
Xylenes, Total	2200		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
1,2-Dichloroethene, Total	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	260		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	37	J	ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	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	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		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	30		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	120		ug/l	25	7.0	10

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01 D

Date Collected: 04/19/18 09:50

Client ID: RMW01_041918

Date Received: 04/19/18

Sample Location: NEW YORK, NY

Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	72		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	180		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	570		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	52		ug/l	20	7.0	10
p-Ethyltoluene	440		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	21		ug/l	20	5.4	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	103		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	92		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
Client ID: RMW05_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/24/18 19:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
 Client ID: RMW05_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
 Client ID: RMW05_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
Client ID: RMW06_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/24/18 20:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
 Client ID: RMW06_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
Client ID: RMW06_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	1.9	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	1.2	J	ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
Client ID: RMW07_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/24/18 20:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
 Client ID: RMW07_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	3.1	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
Client ID: RMW07_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
Client ID: RMW08_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/24/18 21:13
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
 Client ID: RMW08_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
Client ID: RMW08_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
Client ID: RMW09_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/24/18 21:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
 Client ID: RMW09_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
Client ID: RMW09_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-07
Client ID: RGWTB01_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 00:00
Date Received: 04/19/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/24/18 22:04
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-07
 Client ID: RGWTB01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 00:00
 Date Received: 04/19/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-07
Client ID: RGWTB01_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 00:00
Date Received: 04/19/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/24/18 18:16
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-07 Batch: WG1109704-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/24/18 18:16
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-07 Batch: WG1109704-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/24/18 18:16
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-07 Batch: WG1109704-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 04/24/18 18:16
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-07 Batch: WG1109704-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/25/18 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1109800-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/25/18 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1109800-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/25/18 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1109800-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07 Batch: WG1109704-3 WG1109704-4								
Methylene chloride	91		92		70-130	1		20
1,1-Dichloroethane	86		86		70-130	0		20
Chloroform	87		85		70-130	2		20
Carbon tetrachloride	77		75		63-132	3		20
1,2-Dichloropropane	87		86		70-130	1		20
Dibromochloromethane	88		88		63-130	0		20
1,1,2-Trichloroethane	90		89		70-130	1		20
Tetrachloroethene	87		87		70-130	0		20
Chlorobenzene	87		88		75-130	1		20
Trichlorofluoromethane	88		85		62-150	3		20
1,2-Dichloroethane	91		89		70-130	2		20
1,1,1-Trichloroethane	85		82		67-130	4		20
Bromodichloromethane	88		87		67-130	1		20
trans-1,3-Dichloropropene	89		88		70-130	1		20
cis-1,3-Dichloropropene	90		89		70-130	1		20
1,1-Dichloropropene	85		85		70-130	0		20
Bromoform	90		92		54-136	2		20
1,1,2,2-Tetrachloroethane	87		89		67-130	2		20
Benzene	90		90		70-130	0		20
Toluene	87		87		70-130	0		20
Ethylbenzene	87		86		70-130	1		20
Chloromethane	100		100		64-130	0		20
Bromomethane	90		95		39-139	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07 Batch: WG1109704-3 WG1109704-4								
Vinyl chloride	92		91		55-140	1		20
Chloroethane	88		86		55-138	2		20
1,1-Dichloroethene	89		87		61-145	2		20
trans-1,2-Dichloroethene	89		88		70-130	1		20
Trichloroethene	90		89		70-130	1		20
1,2-Dichlorobenzene	88		88		70-130	0		20
1,3-Dichlorobenzene	87		88		70-130	1		20
1,4-Dichlorobenzene	86		87		70-130	1		20
Methyl tert butyl ether	96		94		63-130	2		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	90		88		70-130	2		20
Dibromomethane	89		86		70-130	3		20
1,2,3-Trichloropropane	78		80		64-130	3		20
Acrylonitrile	92		92		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	100		99		36-147	1		20
Acetone	82		87		58-148	6		20
Carbon disulfide	93		92		51-130	1		20
2-Butanone	86		90		63-138	5		20
Vinyl acetate	94		94		70-130	0		20
4-Methyl-2-pentanone	91		93		59-130	2		20
2-Hexanone	89		92		57-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07 Batch: WG1109704-3 WG1109704-4								
Bromochloromethane	90		91		70-130	1		20
2,2-Dichloropropane	92		89		63-133	3		20
1,2-Dibromoethane	91		90		70-130	1		20
1,3-Dichloropropane	87		87		70-130	0		20
1,1,1,2-Tetrachloroethane	89		88		64-130	1		20
Bromobenzene	88		89		70-130	1		20
n-Butylbenzene	84		86		53-136	2		20
sec-Butylbenzene	84		86		70-130	2		20
tert-Butylbenzene	85		86		70-130	1		20
o-Chlorotoluene	87		88		70-130	1		20
p-Chlorotoluene	85		86		70-130	1		20
1,2-Dibromo-3-chloropropane	88		89		41-144	1		20
Hexachlorobutadiene	79		82		63-130	4		20
Isopropylbenzene	85		87		70-130	2		20
p-Isopropyltoluene	87		89		70-130	2		20
Naphthalene	89		92		70-130	3		20
n-Propylbenzene	87		87		69-130	0		20
1,2,3-Trichlorobenzene	89		92		70-130	3		20
1,2,4-Trichlorobenzene	88		89		70-130	1		20
1,3,5-Trimethylbenzene	87		88		64-130	1		20
1,2,4-Trimethylbenzene	88		89		70-130	1		20
1,4-Dioxane	58		106		56-162	59	Q	20
p-Diethylbenzene	91		93		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07 Batch: WG1109704-3 WG1109704-4								
p-Ethyltoluene	92		93		70-130	1		20
1,2,4,5-Tetramethylbenzene	93		94		70-130	1		20
Ethyl ether	94		92		59-134	2		20
trans-1,4-Dichloro-2-butene	88		93		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		96		70-130
Toluene-d8	97		99		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1109800-3 WG1109800-4								
Methylene chloride	97		97		70-130	0		20
1,1-Dichloroethane	99		100		70-130	1		20
Chloroform	98		98		70-130	0		20
Carbon tetrachloride	90		91		63-132	1		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	83		83		63-130	0		20
1,1,2-Trichloroethane	93		94		70-130	1		20
Tetrachloroethene	79		81		70-130	3		20
Chlorobenzene	87		87		75-130	0		20
Trichlorofluoromethane	94		95		62-150	1		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	94		94		67-130	0		20
Bromodichloromethane	96		97		67-130	1		20
trans-1,3-Dichloropropene	91		92		70-130	1		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	96		98		70-130	2		20
Bromoform	79		79		54-136	0		20
1,1,2,2-Tetrachloroethane	91		92		67-130	1		20
Benzene	98		98		70-130	0		20
Toluene	87		89		70-130	2		20
Ethylbenzene	89		89		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	100		100		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1109800-3 WG1109800-4								
Vinyl chloride	120		120		55-140	0		20
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	96		98		61-145	2		20
trans-1,2-Dichloroethene	96		97		70-130	1		20
Trichloroethene	92		94		70-130	2		20
1,2-Dichlorobenzene	85		85		70-130	0		20
1,3-Dichlorobenzene	83		84		70-130	1		20
1,4-Dichlorobenzene	83		83		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	96		96		70-130	0		20
Dibromomethane	98		98		70-130	0		20
1,2,3-Trichloropropane	91		93		64-130	2		20
Acrylonitrile	100		100		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	110		110		58-148	0		20
Carbon disulfide	98		99		51-130	1		20
2-Butanone	100		110		63-138	10		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	91		95		59-130	4		20
2-Hexanone	92		94		57-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1109800-3 WG1109800-4								
Bromochloromethane	97		98		70-130	1		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	89		90		70-130	1		20
1,3-Dichloropropane	90		91		70-130	1		20
1,1,1,2-Tetrachloroethane	85		85		64-130	0		20
Bromobenzene	83		83		70-130	0		20
n-Butylbenzene	90		90		53-136	0		20
sec-Butylbenzene	87		87		70-130	0		20
tert-Butylbenzene	85		86		70-130	1		20
o-Chlorotoluene	91		88		70-130	3		20
p-Chlorotoluene	89		87		70-130	2		20
1,2-Dibromo-3-chloropropane	79		83		41-144	5		20
Hexachlorobutadiene	86		84		63-130	2		20
Isopropylbenzene	88		88		70-130	0		20
p-Isopropyltoluene	88		87		70-130	1		20
Naphthalene	100		100		70-130	0		20
n-Propylbenzene	90		90		69-130	0		20
1,2,3-Trichlorobenzene	97		97		70-130	0		20
1,2,4-Trichlorobenzene	89		90		70-130	1		20
1,3,5-Trimethylbenzene	88		87		64-130	1		20
1,2,4-Trimethylbenzene	89		89		70-130	0		20
1,4-Dioxane	118		110		56-162	7		20
p-Diethylbenzene	87		86		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1109800-3 WG1109800-4								
p-Ethyltoluene	88		88		70-130	0		20
1,2,4,5-Tetramethylbenzene	91		91		70-130	0		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	83		83		70-130	0		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	93		92		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	99		98		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07 QC Batch ID: WG1109704-6 WG1109704-7 QC Sample: L1813851-03 Client ID: RMW06_041918												
Methylene chloride	ND	10	12	120		11	110		70-130	9		20
1,1-Dichloroethane	ND	10	11	110		10	100		70-130	10		20
Chloroform	ND	10	11	110		10	100		70-130	10		20
Carbon tetrachloride	ND	10	11	110		10	100		63-132	10		20
1,2-Dichloropropane	ND	10	11	110		10	100		70-130	10		20
Dibromochloromethane	ND	10	11	110		10	100		63-130	10		20
1,1,2-Trichloroethane	ND	10	11	110		10	100		70-130	10		20
Tetrachloroethene	ND	10	11	110		11	110		70-130	0		20
Chlorobenzene	ND	10	11	110		10	100		75-130	10		20
Trichlorofluoromethane	ND	10	12	120		12	120		62-150	0		20
1,2-Dichloroethane	ND	10	11	110		10	100		70-130	10		20
1,1,1-Trichloroethane	ND	10	11	110		11	110		67-130	0		20
Bromodichloromethane	ND	10	11	110		9.9	99		67-130	11		20
trans-1,3-Dichloropropene	ND	10	10	100		9.8	98		70-130	2		20
cis-1,3-Dichloropropene	ND	10	10	100		9.6	96		70-130	4		20
1,1-Dichloropropene	ND	10	12	120		11	110		70-130	9		20
Bromoform	ND	10	11	110		9.9	99		54-136	11		20
1,1,2,2-Tetrachloroethane	ND	10	11	110		10	100		67-130	10		20
Benzene	ND	10	12	120		11	110		70-130	9		20
Toluene	ND	10	11	110		10	100		70-130	10		20
Ethylbenzene	ND	10	11	110		10	100		70-130	10		20
Chloromethane	ND	10	13	130		12	120		64-130	8		20
Bromomethane	ND	10	7.6	76		8.6	86		39-139	12		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07 QC Batch ID: WG1109704-6 WG1109704-7 QC Sample: L1813851-03 Client ID: RMW06_041918												
Vinyl chloride	ND	10	14	140		13	130		55-140	7		20
Chloroethane	ND	10	13	130		12	120		55-138	8		20
1,1-Dichloroethene	ND	10	13	130		12	120		61-145	8		20
trans-1,2-Dichloroethene	ND	10	12	120		11	110		70-130	9		20
Trichloroethene	ND	10	12	120		11	110		70-130	9		20
1,2-Dichlorobenzene	ND	10	11	110		9.9	99		70-130	11		20
1,3-Dichlorobenzene	ND	10	10	100		9.8	98		70-130	2		20
1,4-Dichlorobenzene	ND	10	10	100		9.8	98		70-130	2		20
Methyl tert butyl ether	ND	10	12	120		11	110		63-130	9		20
p/m-Xylene	ND	20	23	115		22	110		70-130	4		20
o-Xylene	ND	20	23	115		22	110		70-130	4		20
cis-1,2-Dichloroethene	ND	10	11	110		10	100		70-130	10		20
Dibromomethane	ND	10	10	100		9.9	99		70-130	1		20
1,2,3-Trichloropropane	ND	10	10	100		9.8	98		64-130	2		20
Acrylonitrile	ND	10	11	110		10	100		70-130	10		20
Styrene	ND	20	23	115		22	110		70-130	4		20
Dichlorodifluoromethane	ND	10	14	140		13	130		36-147	7		20
Acetone	ND	10	12	120		11	110		58-148	9		20
Carbon disulfide	ND	10	13	130		12	120		51-130	8		20
2-Butanone	ND	10	9.9	99		9.8	98		63-138	1		20
Vinyl acetate	ND	10	11	110		10	100		70-130	10		20
4-Methyl-2-pentanone	ND	10	12	120		11	110		59-130	9		20
2-Hexanone	ND	10	11	110		10	100		57-130	10		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07 QC Batch ID: WG1109704-6 WG1109704-7 QC Sample: L1813851-03 Client ID: RMW06_041918												
Bromochloromethane	ND	10	11	110		11	110		70-130	0		20
2,2-Dichloropropane	ND	10	9.9	99		9.2	92		63-133	7		20
1,2-Dibromoethane	ND	10	11	110		10	100		70-130	10		20
1,3-Dichloropropane	ND	10	11	110		10	100		70-130	10		20
1,1,1,2-Tetrachloroethane	ND	10	11	110		10	100		64-130	10		20
Bromobenzene	ND	10	11	110		10	100		70-130	10		20
n-Butylbenzene	ND	10	11	110		10	100		53-136	10		20
sec-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
tert-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
o-Chlorotoluene	ND	10	8.5	85		7.9	79		70-130	7		20
p-Chlorotoluene	ND	10	10	100		9.6	96		70-130	4		20
1,2-Dibromo-3-chloropropane	ND	10	11	110		9.8	98		41-144	12		20
Hexachlorobutadiene	ND	10	10	100		9.6	96		63-130	4		20
Isopropylbenzene	ND	10	11	110		10	100		70-130	10		20
p-Isopropyltoluene	ND	10	11	110		10	100		70-130	10		20
Naphthalene	ND	10	11	110		11	110		70-130	0		20
n-Propylbenzene	ND	10	11	110		11	110		69-130	0		20
1,2,3-Trichlorobenzene	ND	10	11	110		10	100		70-130	10		20
1,2,4-Trichlorobenzene	ND	10	11	110		9.9	99		70-130	11		20
1,3,5-Trimethylbenzene	ND	10	11	110		11	110		64-130	0		20
1,2,4-Trimethylbenzene	1.9J	10	12	120		12	120		70-130	0		20
1,4-Dioxane	ND	500	160J	32	Q	480	96		56-162	100	Q	20
p-Diethylbenzene	ND	10	12	120		12	120		70-130	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07 QC Batch ID: WG1109704-6 WG1109704-7 QC Sample: L1813851-03 Client ID: RMW06_041918												
p-Ethyltoluene	1.2J	10	12	120		12	120		70-130	0		20
1,2,4,5-Tetramethylbenzene	ND	10	12	120		11	110		70-130	9		20
Ethyl ether	ND	10	12	120		11	110		59-134	9		20
trans-1,4-Dichloro-2-butene	ND	10	8.9	89		8.2	82		70-130	8		20

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
4-Bromofluorobenzene	98		95		70-130
Dibromofluoromethane	100		99		70-130
Toluene-d8	99		97		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
Client ID: RMW01_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/24/18 03:36
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	4.4		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
Client ID: RMW01_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	107		10-120
4-Terphenyl-d14	101		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/23/18 12:26
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 04/22/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	33	E	ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	0.04	J	ug/l	0.10	0.04	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	12		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	68		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/26/18 20:08
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	151.		ng/l	139	69.4	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			30		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
Client ID: RMW01_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/24/18 14:40
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/23/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	22.4		ng/l	1.85	0.121	1
Perfluoropentanoic Acid (PFPeA)	37.8		ng/l	1.85	0.079	1
Perfluorobutanesulfonic Acid (PFBS)	9.83		ng/l	1.85	0.102	1
Perfluorohexanoic Acid (PFHxA)	24.7		ng/l	1.85	0.117	1
Perfluoroheptanoic Acid (PFHpA)	11.3		ng/l	1.85	0.086	1
Perfluorohexanesulfonic Acid (PFHxS)	7.08		ng/l	1.85	0.100	1
Perfluorooctanoic Acid (PFOA)	41.5		ng/l	1.85	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.341	J	ng/l	1.85	0.180	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.696	J	ng/l	1.85	0.144	1
Perfluorononanoic Acid (PFNA)	1.10	J	ng/l	1.85	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	15.8		ng/l	1.85	0.103	1
Perfluorodecanoic Acid (PFDA)	0.344	J	ng/l	1.85	0.176	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.85	0.269	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.507	J	ng/l	1.85	0.232	1
Perfluoroundecanoic Acid (PFUnA)	0.570	J	ng/l	1.85	0.177	1
Perfluorodecanesulfonic Acid (PFDS)	0.359	J	ng/l	1.85	0.206	1
Perfluorooctanesulfonamide (FOSA)	0.341	J	ng/l	1.85	0.210	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.01	J	ng/l	1.85	0.345	1
Perfluorododecanoic Acid (PFDoA)	0.781	J	ng/l	1.85	0.085	1
Perfluorotridecanoic Acid (PFTrDA)	0.718	J	ng/l	1.85	0.084	1
Perfluorotetradecanoic Acid (PFTA)	0.685	J	ng/l	1.85	0.067	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	77		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	171	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	106		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	146		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	102		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	102		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01 D
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/26/18 15:43
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 04/22/18 01:50

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

Naphthalene	68		ug/l	0.50	0.22	5
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Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
Client ID: RMW05_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/24/18 04:01
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	3.9		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
Client ID: RMW05_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	98		15-120
2,4,6-Tribromophenol	119		10-120
4-Terphenyl-d14	104		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
 Client ID: RMW05_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/23/18 12:58
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 04/22/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.04	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.02	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
 Client ID: RMW05_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	72		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
 Client ID: RMW05_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/26/18 20:34
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	142	70.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	25		15-110

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
Client ID: RMW05_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/24/18 14:56
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/23/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.91		ng/l	1.92	0.126	1
Perfluoropentanoic Acid (PFPeA)	9.44		ng/l	1.92	0.082	1
Perfluorobutanesulfonic Acid (PFBS)	5.55		ng/l	1.92	0.106	1
Perfluorohexanoic Acid (PFHxA)	7.68		ng/l	1.92	0.122	1
Perfluoroheptanoic Acid (PFHpA)	5.47		ng/l	1.92	0.089	1
Perfluorohexanesulfonic Acid (PFHxS)	4.15		ng/l	1.92	0.103	1
Perfluorooctanoic Acid (PFOA)	17.3		ng/l	1.92	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.92	0.186	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.92	0.149	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.92	0.097	1
Perfluorooctanesulfonic Acid (PFOS)	0.492	J	ng/l	1.92	0.107	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.92	0.183	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.92	0.280	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.92	0.241	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.92	0.184	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.92	0.214	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.92	0.218	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.92	0.358	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.92	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.92	0.087	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.92	0.069	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
Client ID: RMW05_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	74		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	192	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	128		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	92		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	29	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	71		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
Client ID: RMW06_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/24/18 04:27
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	4.8	0.64	1
Bis(2-chloroethyl)ether	ND		ug/l	1.9	0.64	1
1,2-Dichlorobenzene	ND		ug/l	1.9	0.70	1
1,3-Dichlorobenzene	ND		ug/l	1.9	0.66	1
1,4-Dichlorobenzene	ND		ug/l	1.9	0.68	1
3,3'-Dichlorobenzidine	ND		ug/l	4.8	1.3	1
2,4-Dinitrotoluene	ND		ug/l	4.8	0.81	1
2,6-Dinitrotoluene	ND		ug/l	4.8	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	1.9	0.60	1
4-Bromophenyl phenyl ether	ND		ug/l	1.9	0.70	1
Bis(2-chloroisopropyl)ether	ND		ug/l	1.9	0.67	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.8	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	19	7.6	1
Isophorone	ND		ug/l	4.8	0.58	1
Nitrobenzene	ND		ug/l	1.9	0.72	1
NDPA/DPA	ND		ug/l	1.9	0.62	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.8	0.67	1
Bis(2-ethylhexyl)phthalate	4.1		ug/l	2.9	0.88	1
Butyl benzyl phthalate	ND		ug/l	4.8	1.2	1
Di-n-butylphthalate	ND		ug/l	4.8	0.66	1
Di-n-octylphthalate	ND		ug/l	4.8	1.1	1
Diethyl phthalate	ND		ug/l	4.8	0.60	1
Dimethyl phthalate	ND		ug/l	4.8	0.63	1
Biphenyl	ND		ug/l	1.9	0.73	1
4-Chloroaniline	ND		ug/l	4.8	0.61	1
2-Nitroaniline	ND		ug/l	4.8	1.1	1
3-Nitroaniline	ND		ug/l	4.8	1.2	1
4-Nitroaniline	ND		ug/l	4.8	1.2	1

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
 Client ID: RMW06_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	1.9	0.63	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	9.6	0.64	1
Acetophenone	ND		ug/l	4.8	0.82	1
2,4,6-Trichlorophenol	ND		ug/l	4.8	0.66	1
p-Chloro-m-cresol	ND		ug/l	1.9	0.59	1
2-Chlorophenol	ND		ug/l	1.9	0.61	1
2,4-Dichlorophenol	ND		ug/l	4.8	0.74	1
2,4-Dimethylphenol	ND		ug/l	4.8	1.6	1
2-Nitrophenol	ND		ug/l	9.6	1.5	1
4-Nitrophenol	ND		ug/l	9.6	1.7	1
2,4-Dinitrophenol	ND		ug/l	19	5.3	1
4,6-Dinitro-o-cresol	ND		ug/l	9.6	2.0	1
Phenol	ND		ug/l	4.8	1.8	1
2-Methylphenol	ND		ug/l	4.8	0.98	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.8	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	4.8	0.69	1
Benzoic Acid	ND		ug/l	48	12.	1
Benzyl Alcohol	ND		ug/l	1.9	0.70	1
Carbazole	ND		ug/l	1.9	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	83		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
Client ID: RMW06_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/23/18 13:13
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.03	1
2-Chloronaphthalene	ND		ug/l	0.19	0.03	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.48	0.04	1
Naphthalene	0.18		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.03	1
Anthracene	ND		ug/l	0.10	0.03	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.77	0.21	1
Hexachlorobenzene	ND		ug/l	0.77	0.03	1
Hexachloroethane	ND		ug/l	0.77	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
 Client ID: RMW06_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	60		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
 Client ID: RMW06_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/26/18 21:00
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	133.	J	ng/l	167	83.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	27		15-110

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
Client ID: RMW06_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/24/18 15:13
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/23/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.42		ng/l	2.17	0.143	1
Perfluoropentanoic Acid (PFPeA)	2.25		ng/l	2.17	0.093	1
Perfluorobutanesulfonic Acid (PFBS)	1.42	J	ng/l	2.17	0.120	1
Perfluorohexanoic Acid (PFHxA)	1.60	J	ng/l	2.17	0.137	1
Perfluoroheptanoic Acid (PFHpA)	1.27	J	ng/l	2.17	0.100	1
Perfluorohexanesulfonic Acid (PFHxS)	5.48		ng/l	2.17	0.117	1
Perfluorooctanoic Acid (PFOA)	6.60		ng/l	2.17	0.055	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.17	0.211	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.565	J	ng/l	2.17	0.169	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.17	0.110	1
Perfluorooctanesulfonic Acid (PFOS)	3.55		ng/l	2.17	0.121	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.17	0.207	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.17	0.316	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.17	0.272	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.17	0.208	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.17	0.242	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.17	0.246	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.17	0.405	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.17	0.100	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.17	0.098	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.17	0.078	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
 Client ID: RMW06_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	69		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	68		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	169	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	115		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
Client ID: RMW07_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/24/18 04:52
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	4.2		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
 Client ID: RMW07_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	127	Q	10-120
4-Terphenyl-d14	102		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
Client ID: RMW07_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/23/18 15:09
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.07	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.50		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.02	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
 Client ID: RMW07_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	68		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
 Client ID: RMW07_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/26/18 22:18
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	72.1	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			28		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
Client ID: RMW07_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/24/18 16:03
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/23/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	24.2		ng/l	2.00	0.131	1
Perfluoropentanoic Acid (PFPeA)	57.3		ng/l	2.00	0.086	1
Perfluorobutanesulfonic Acid (PFBS)	4.07		ng/l	2.00	0.110	1
Perfluorohexanoic Acid (PFHxA)	49.9		ng/l	2.00	0.126	1
Perfluoroheptanoic Acid (PFHpA)	28.4		ng/l	2.00	0.092	1
Perfluorohexanesulfonic Acid (PFHxS)	30.3		ng/l	2.00	0.108	1
Perfluorooctanoic Acid (PFOA)	90.3		ng/l	2.00	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	4.18		ng/l	2.00	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.155	1
Perfluorononanoic Acid (PFNA)	2.54		ng/l	2.00	0.101	1
Perfluorooctanesulfonic Acid (PFOS)	19.3		ng/l	2.00	0.112	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.190	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	0.291	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.272	J	ng/l	2.00	0.250	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.191	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.222	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.227	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.373	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.092	1
Perfluorotridecanoic Acid (PFTrDA)	0.172	J	ng/l	2.00	0.090	1
Perfluorotetradecanoic Acid (PFTA)	0.148	J	ng/l	2.00	0.072	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
 Client ID: RMW07_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	60		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	121		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	187	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	116		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	195	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	142		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	122		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	44	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	147		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	111		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
Client ID: RMW08_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/24/18 05:17
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	4.8	0.64	1
Bis(2-chloroethyl)ether	ND		ug/l	1.9	0.65	1
1,2-Dichlorobenzene	ND		ug/l	1.9	0.71	1
1,3-Dichlorobenzene	ND		ug/l	1.9	0.67	1
1,4-Dichlorobenzene	ND		ug/l	1.9	0.69	1
3,3'-Dichlorobenzidine	ND		ug/l	4.8	1.3	1
2,4-Dinitrotoluene	ND		ug/l	4.8	0.82	1
2,6-Dinitrotoluene	ND		ug/l	4.8	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	1.9	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	1.9	0.71	1
Bis(2-chloroisopropyl)ether	ND		ug/l	1.9	0.67	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.8	0.61	1
Hexachlorocyclopentadiene	ND		ug/l	19	7.6	1
Isophorone	ND		ug/l	4.8	0.58	1
Nitrobenzene	ND		ug/l	1.9	0.73	1
NDPA/DPA	ND		ug/l	1.9	0.62	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.8	0.68	1
Bis(2-ethylhexyl)phthalate	4.3		ug/l	2.9	0.88	1
Butyl benzyl phthalate	ND		ug/l	4.8	1.2	1
Di-n-butylphthalate	ND		ug/l	4.8	0.67	1
Di-n-octylphthalate	ND		ug/l	4.8	1.1	1
Diethyl phthalate	ND		ug/l	4.8	0.61	1
Dimethyl phthalate	ND		ug/l	4.8	0.63	1
Biphenyl	ND		ug/l	1.9	0.73	1
4-Chloroaniline	ND		ug/l	4.8	0.61	1
2-Nitroaniline	ND		ug/l	4.8	1.1	1
3-Nitroaniline	ND		ug/l	4.8	1.2	1
4-Nitroaniline	ND		ug/l	4.8	1.3	1

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
 Client ID: RMW08_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	1.9	0.64	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	9.7	0.65	1
Acetophenone	ND		ug/l	4.8	0.82	1
2,4,6-Trichlorophenol	ND		ug/l	4.8	0.66	1
p-Chloro-m-cresol	ND		ug/l	1.9	0.60	1
2-Chlorophenol	ND		ug/l	1.9	0.61	1
2,4-Dichlorophenol	ND		ug/l	4.8	0.74	1
2,4-Dimethylphenol	ND		ug/l	4.8	1.6	1
2-Nitrophenol	ND		ug/l	9.7	1.5	1
4-Nitrophenol	ND		ug/l	9.7	1.7	1
2,4-Dinitrophenol	ND		ug/l	19	5.3	1
4,6-Dinitro-o-cresol	ND		ug/l	9.7	2.0	1
Phenol	ND		ug/l	4.8	1.8	1
2-Methylphenol	ND		ug/l	4.8	0.99	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.8	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	4.8	0.69	1
Benzoic Acid	ND		ug/l	48	12.	1
Benzyl Alcohol	ND		ug/l	1.9	0.70	1
Carbazole	ND		ug/l	1.9	0.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	75		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
Client ID: RMW08_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/23/18 15:41
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.03	1
2-Chloronaphthalene	ND		ug/l	0.19	0.03	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.48	0.04	1
Naphthalene	0.05	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.03	1
Anthracene	ND		ug/l	0.10	0.03	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.78	0.21	1
Hexachlorobenzene	ND		ug/l	0.78	0.03	1
Hexachloroethane	ND		ug/l	0.78	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
 Client ID: RMW08_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	53		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
 Client ID: RMW08_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/26/18 22:44
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	147	73.5	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			24		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
Client ID: RMW08_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/24/18 16:19
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/23/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	35.1		ng/l	2.17	0.143	1
Perfluoropentanoic Acid (PFPeA)	66.4		ng/l	2.17	0.093	1
Perfluorobutanesulfonic Acid (PFBS)	12.5		ng/l	2.17	0.120	1
Perfluorohexanoic Acid (PFHxA)	55.8		ng/l	2.17	0.137	1
Perfluoroheptanoic Acid (PFHpA)	42.0		ng/l	2.17	0.100	1
Perfluorohexanesulfonic Acid (PFHxS)	13.9		ng/l	2.17	0.117	1
Perfluorooctanoic Acid (PFOA)	125		ng/l	2.17	0.055	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.974	J	ng/l	2.17	0.211	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.72	J	ng/l	2.17	0.169	1
Perfluorononanoic Acid (PFNA)	2.84		ng/l	2.17	0.110	1
Perfluorooctanesulfonic Acid (PFOS)	25.0		ng/l	2.17	0.121	1
Perfluorodecanoic Acid (PFDA)	0.500	J	ng/l	2.17	0.207	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.17	0.316	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.17	0.272	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.17	0.208	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.17	0.242	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.17	0.246	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.17	0.405	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.17	0.100	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.17	0.098	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.17	0.078	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
 Client ID: RMW08_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	45	Q	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	55		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	110		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	71		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	128		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	256	Q	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	183	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	120		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	112		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	63		50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	134		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
Client ID: RMW09_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/24/18 05:43
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	4.1		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
Client ID: RMW09_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	97		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
 Client ID: RMW09_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/23/18 16:14
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 04/22/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.07	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
 Client ID: RMW09_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	68		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
 Client ID: RMW09_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 04/26/18 23:10
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	109.	J	ng/l	174	87.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	31		15-110

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
Client ID: RMW09_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 04/24/18 16:36
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/23/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	29.5		ng/l	2.27	0.149	1
Perfluoropentanoic Acid (PFPeA)	36.0		ng/l	2.27	0.097	1
Perfluorobutanesulfonic Acid (PFBS)	4.27		ng/l	2.27	0.125	1
Perfluorohexanoic Acid (PFHxA)	22.2		ng/l	2.27	0.144	1
Perfluoroheptanoic Acid (PFHpA)	9.98		ng/l	2.27	0.105	1
Perfluorohexanesulfonic Acid (PFHxS)	2.50		ng/l	2.27	0.122	1
Perfluorooctanoic Acid (PFOA)	20.2		ng/l	2.27	0.057	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.27	0.220	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.27	0.176	1
Perfluorononanoic Acid (PFNA)	1.33	J	ng/l	2.27	0.114	1
Perfluorooctanesulfonic Acid (PFOS)	15.4		ng/l	2.27	0.127	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.27	0.216	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.27	0.330	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.27	0.284	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.27	0.217	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.27	0.253	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.27	0.258	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.27	0.424	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.27	0.104	1
Perfluorotridecanoic Acid (PFTrDA)	0.154	J	ng/l	2.27	0.103	1
Perfluorotetradecanoic Acid (PFTTA)	0.223	J	ng/l	2.27	0.082	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
Client ID: RMW09_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	117		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	145		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	117		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	135		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	113		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	123		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	29	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	114		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	115		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	92		50-150

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/24/18 18:02
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1108705-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	2.0	J	ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/24/18 18:02
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1108705-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/24/18 18:02
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1108705-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	89		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/23/18 09:46
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG1108706-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/23/18 09:46
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG1108706-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	70		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 04/24/18 12:11
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/23/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1108825-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.131
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.086
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.110
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.126
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.092
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.108
Perfluorooctanoic Acid (PFOA)	0.844	J	ng/l	2.00	0.050
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	0.194
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.155
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.101
Perfluorooctanesulfonic Acid (PFOS)	0.168	J	ng/l	2.00	0.112
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.190
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	0.291
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.250
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.191
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.222
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.227
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.373
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.092
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.090
Perfluorotetradecanoic Acid (PFTA)	0.156	J	ng/l	2.00	0.072

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 04/24/18 12:11
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 04/23/18 09:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1108825-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	115		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	132		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	119		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	142		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	112		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	132		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	152	Q	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	131		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	141		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	39	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	146		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	131		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	121		50-150

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D-SIM
 Analytical Date: 04/26/18 15:42
 Analyst: TJ

Extraction Method: EPA 3510C
 Extraction Date: 04/23/18 20:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-06 Batch: WG1109045-1					
1,4-Dioxane	ND		ng/l	150	75.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	23		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1108705-2 WG1108705-3								
Acenaphthene	96		92		37-111	4		30
1,2,4-Trichlorobenzene	84		75		39-98	11		30
Hexachlorobenzene	101		101		40-140	0		30
Bis(2-chloroethyl)ether	91		82		40-140	10		30
2-Chloronaphthalene	92		87		40-140	6		30
1,2-Dichlorobenzene	79		70		40-140	12		30
1,3-Dichlorobenzene	76		66		40-140	14		30
1,4-Dichlorobenzene	78		67		36-97	15		30
3,3'-Dichlorobenzidine	76		79		40-140	4		30
2,4-Dinitrotoluene	114		112		48-143	2		30
2,6-Dinitrotoluene	110		108		40-140	2		30
Fluoranthene	102		103		40-140	1		30
4-Chlorophenyl phenyl ether	95		93		40-140	2		30
4-Bromophenyl phenyl ether	100		99		40-140	1		30
Bis(2-chloroisopropyl)ether	71		65		40-140	9		30
Bis(2-chloroethoxy)methane	98		92		40-140	6		30
Hexachlorobutadiene	74		67		40-140	10		30
Hexachlorocyclopentadiene	50		44		40-140	13		30
Hexachloroethane	76		66		40-140	14		30
Isophorone	105		99		40-140	6		30
Naphthalene	84		78		40-140	7		30
Nitrobenzene	91		84		40-140	8		30
NDPA/DPA	105		104		40-140	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1108705-2 WG1108705-3								
n-Nitrosodi-n-propylamine	102		95		29-132	7		30
Bis(2-ethylhexyl)phthalate	110		105		40-140	5		30
Butyl benzyl phthalate	103		104		40-140	1		30
Di-n-butylphthalate	111		109		40-140	2		30
Di-n-octylphthalate	107		106		40-140	1		30
Diethyl phthalate	103		102		40-140	1		30
Dimethyl phthalate	102		100		40-140	2		30
Benzo(a)anthracene	102		100		40-140	2		30
Benzo(a)pyrene	109		112		40-140	3		30
Benzo(b)fluoranthene	114		112		40-140	2		30
Benzo(k)fluoranthene	105		105		40-140	0		30
Chrysene	96		95		40-140	1		30
Acenaphthylene	100		97		45-123	3		30
Anthracene	98		97		40-140	1		30
Benzo(ghi)perylene	110		107		40-140	3		30
Fluorene	99		97		40-140	2		30
Phenanthrene	96		94		40-140	2		30
Dibenzo(a,h)anthracene	112		110		40-140	2		30
Indeno(1,2,3-cd)pyrene	92		90		40-140	2		30
Pyrene	98		99		26-127	1		30
Biphenyl	91		88		40-140	3		30
4-Chloroaniline	60		58		40-140	3		30
2-Nitroaniline	115		114		52-143	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1108705-2 WG1108705-3								
3-Nitroaniline	65		68		25-145	5		30
4-Nitroaniline	107		104		51-143	3		30
Dibenzofuran	95		92		40-140	3		30
2-Methylnaphthalene	90		84		40-140	7		30
1,2,4,5-Tetrachlorobenzene	87		82		2-134	6		30
Acetophenone	101		93		39-129	8		30
2,4,6-Trichlorophenol	112		108		30-130	4		30
p-Chloro-m-cresol	111	Q	108	Q	23-97	3		30
2-Chlorophenol	97		90		27-123	7		30
2,4-Dichlorophenol	109		102		30-130	7		30
2,4-Dimethylphenol	95		88		30-130	8		30
2-Nitrophenol	108		102		30-130	6		30
4-Nitrophenol	70		70		10-80	0		30
2,4-Dinitrophenol	99		102		20-130	3		30
4,6-Dinitro-o-cresol	122		122		20-164	0		30
Pentachlorophenol	89		91		9-103	2		30
Phenol	48		46		12-110	4		30
2-Methylphenol	94		87		30-130	8		30
3-Methylphenol/4-Methylphenol	95		90		30-130	5		30
2,4,5-Trichlorophenol	108		104		30-130	4		30
Benzoic Acid	36		36		10-164	0		30
Benzyl Alcohol	86		79		26-116	8		30
Carbazole	110		110		55-144	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1108705-2 WG1108705-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	74		68		21-120
Phenol-d6	57		54		10-120
Nitrobenzene-d5	99		89		23-120
2-Fluorobiphenyl	100		95		15-120
2,4,6-Tribromophenol	132	Q	127	Q	10-120
4-Terphenyl-d14	104		103		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG1108706-2 WG1108706-3								
Acenaphthene	64		64		40-140	0		40
2-Chloronaphthalene	62		63		40-140	2		40
Fluoranthene	69		67		40-140	3		40
Hexachlorobutadiene	62		65		40-140	5		40
Naphthalene	64		67		40-140	5		40
Benzo(a)anthracene	72		69		40-140	4		40
Benzo(a)pyrene	71		68		40-140	4		40
Benzo(b)fluoranthene	74		71		40-140	4		40
Benzo(k)fluoranthene	70		67		40-140	4		40
Chrysene	74		70		40-140	6		40
Acenaphthylene	67		67		40-140	0		40
Anthracene	69		66		40-140	4		40
Benzo(ghi)perylene	73		69		40-140	6		40
Fluorene	68		67		40-140	1		40
Phenanthrene	66		65		40-140	2		40
Dibenzo(a,h)anthracene	73		70		40-140	4		40
Indeno(1,2,3-cd)pyrene	76		72		40-140	5		40
Pyrene	70		68		40-140	3		40
2-Methylnaphthalene	64		66		40-140	3		40
Pentachlorophenol	69		66		40-140	4		40
Hexachlorobenzene	70		68		40-140	3		40
Hexachloroethane	57		61		40-140	7		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG1108706-2 WG1108706-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	40		43		21-120
Phenol-d6	34		35		10-120
Nitrobenzene-d5	69		73		23-120
2-Fluorobiphenyl	76		80		15-120
2,4,6-Tribromophenol	59		59		10-120
4-Terphenyl-d14	72		72		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1108825-2 WG1108825-3								
Perfluorobutanoic Acid (PFBA)	100		105		50-150	5		30
Perfluoropentanoic Acid (PFPeA)	103		107		50-150	4		30
Perfluorobutanesulfonic Acid (PFBS)	100		105		50-150	5		30
Perfluorohexanoic Acid (PFHxA)	106		113		50-150	6		30
Perfluoroheptanoic Acid (PFHpA)	96		100		50-150	4		30
Perfluorohexanesulfonic Acid (PFHxS)	108		117		50-150	8		30
Perfluorooctanoic Acid (PFOA)	100		106		50-150	6		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	96		100		50-150	4		30
Perfluoroheptanesulfonic Acid (PFHpS)	105		106		50-150	1		30
Perfluorononanoic Acid (PFNA)	107		119		50-150	11		30
Perfluorooctanesulfonic Acid (PFOS)	86		95		50-150	10		30
Perfluorodecanoic Acid (PFDA)	100		111		50-150	10		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	101		107		50-150	6		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	96		96		50-150	0		30
Perfluoroundecanoic Acid (PFUnA)	96		98		50-150	2		30
Perfluorodecanesulfonic Acid (PFDS)	78		85		50-150	9		30
Perfluorooctanesulfonamide (FOSA)	98		102		50-150	4		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	91		103		50-150	12		30
Perfluorododecanoic Acid (PFDoA)	98		101		50-150	3		30
Perfluorotridecanoic Acid (PFTrDA)	81		86		50-150	6		30
Perfluorotetradecanoic Acid (PFTA)	108		112		50-150	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1108825-2 WG1108825-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		83		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		84		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		103		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		100		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	121		116		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	111		104		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	147		142		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		101		50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		102		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	119		113		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	141		139		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	124		126		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	126		127		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22	Q	63		50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	133		130		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	115		118		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	106		111		50-150

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG1109045-2 WG1109045-3								
1,4-Dioxane	108		111		40-140	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	21		25		15-110

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108705-4 WG1108705-5 QC Sample: L1813851-03 Client ID: RMW06_041918												
1,2,4-Trichlorobenzene	ND	40	30	75		31	78		39-98	3		30
Bis(2-chloroethyl)ether	ND	40	32	80		32	80		40-140	0		30
1,2-Dichlorobenzene	ND	40	28	70		30	75		40-140	7		30
1,3-Dichlorobenzene	ND	40	28	70		29	73		40-140	4		30
1,4-Dichlorobenzene	ND	40	28	70		29	73		36-97	4		30
3,3'-Dichlorobenzidine	ND	40	22	55		24	60		40-140	9		30
2,4-Dinitrotoluene	ND	40	42	110		40	100		48-143	5		30
2,6-Dinitrotoluene	ND	40	40	100		38	95		40-140	5		30
4-Chlorophenyl phenyl ether	ND	40	36	90		34	85		40-140	6		30
4-Bromophenyl phenyl ether	ND	40	38	95		36	90		40-140	5		30
Bis(2-chloroisopropyl)ether	ND	40	25	63		26	65		40-140	4		30
Bis(2-chloroethoxy)methane	ND	40	36	90		35	88		40-140	3		30
Hexachlorocyclopentadiene	ND	40	19J	48		19.J	48		40-140	0		30
Isophorone	ND	40	38	95		37	93		40-140	3		30
Nitrobenzene	ND	40	33	83		34	85		40-140	3		30
NDPA/DPA	ND	40	40	100		38	95		40-140	5		30
n-Nitrosodi-n-propylamine	ND	40	36	90		36	90		29-132	0		30
Bis(2-ethylhexyl)phthalate	4.1	40	42	95		38	85		40-140	10		30
Butyl benzyl phthalate	ND	40	40	100		37	93		40-140	8		30
Di-n-butylphthalate	ND	40	42	110		39	98		40-140	7		30
Di-n-octylphthalate	ND	40	42	110		38	95		40-140	10		30
Diethyl phthalate	ND	40	39	98		37	93		40-140	5		30
Dimethyl phthalate	ND	40	39	98		36	90		40-140	8		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108705-4 WG1108705-5 QC Sample: L1813851-03 Client ID: RMW06_041918												
Biphenyl	ND	40	35	88		33	83		40-140	6		30
4-Chloroaniline	ND	40	21	53		18	45		40-140	15		30
2-Nitroaniline	ND	40	42	110		41	100		52-143	2		30
3-Nitroaniline	ND	40	23	58		22	55		25-145	4		30
4-Nitroaniline	ND	40	36	90		34	85		51-143	6		30
Dibenzofuran	ND	40	35	88		34	85		40-140	3		30
1,2,4,5-Tetrachlorobenzene	ND	40	32	80		31	78		2-134	3		30
Acetophenone	ND	40	35	88		36	90		39-129	3		30
2,4,6-Trichlorophenol	ND	40	42	110		40	100		30-130	5		30
p-Chloro-m-cresol	ND	40	41	100	Q	39	98	Q	23-97	5		30
2-Chlorophenol	ND	40	34	85		35	88		27-123	3		30
2,4-Dichlorophenol	ND	40	39	98		39	98		30-130	0		30
2,4-Dimethylphenol	ND	40	33	83		35	88		30-130	6		30
2-Nitrophenol	ND	40	38	95		39	98		30-130	3		30
4-Nitrophenol	ND	40	28	70		26	65		10-80	7		30
2,4-Dinitrophenol	ND	40	43	110		40	100		20-130	7		30
4,6-Dinitro-o-cresol	ND	40	47	120		43	110		20-164	9		30
Phenol	ND	40	17	43		17	43		12-110	0		30
2-Methylphenol	ND	40	33	83		33	83		30-130	0		30
3-Methylphenol/4-Methylphenol	ND	40	33	83		34	85		30-130	3		30
2,4,5-Trichlorophenol	ND	40	41	100		38	95		30-130	8		30
Benzoic Acid	ND	40	28J	70		26.J	65		10-164	7		30
Benzyl Alcohol	ND	40	31	78		30	75		26-116	3		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108705-4 WG1108705-5 QC Sample: L1813851-03 Client ID: RMW06_041918												
Carbazole	ND	40	42	110		39	98		55-144	7		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	122	Q	114		10-120
2-Fluorobiphenyl	92		89		15-120
2-Fluorophenol	64		66		21-120
4-Terphenyl-d14	99		90		41-149
Nitrobenzene-d5	86		88		23-120
Phenol-d6	49		49		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108706-4 WG1108706-5 QC Sample: L1813851-03 Client ID: RMW06_041918												
Acenaphthene	ND	40	31	78		30	75		40-140	3		40
2-Chloronaphthalene	ND	40	27	68		27	68		40-140	0		40
Fluoranthene	ND	40	30	75		28	70		40-140	7		40
Hexachlorobutadiene	ND	40	24	60		24	60		40-140	0		40
Naphthalene	0.18	40	25	62		25	62		40-140	0		40
Benzo(a)anthracene	ND	40	28	70		26	65		40-140	7		40
Benzo(a)pyrene	ND	40	29	73		27	68		40-140	7		40
Benzo(b)fluoranthene	ND	40	29	73		27	68		40-140	7		40
Benzo(k)fluoranthene	ND	40	30	75		28	70		40-140	7		40
Chrysene	ND	40	29	73		27	68		40-140	7		40
Acenaphthylene	ND	40	30	75		30	75		40-140	0		40
Anthracene	ND	40	30	75		28	70		40-140	7		40
Benzo(ghi)perylene	ND	40	29	73		26	65		40-140	11		40
Fluorene	ND	40	33	83		31	78		40-140	6		40
Phenanthrene	ND	40	29	73		27	68		40-140	7		40
Dibenzo(a,h)anthracene	ND	40	30	75		28	70		40-140	7		40
Indeno(1,2,3-cd)pyrene	ND	40	28	70		26	65		40-140	7		40
Pyrene	ND	40	30	75		28	70		40-140	7		40
2-Methylnaphthalene	ND	40	27	68		27	68		40-140	0		40
Pentachlorophenol	ND	40	33	83		31	78		40-140	6		40
Hexachlorobenzene	ND	40	30	75		28	70		40-140	7		40
Hexachloroethane	ND	40	22	55		23	58		40-140	4		40

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108706-4 WG1108706-5 QC Sample: L1813851-03
Client ID: RMW06_041918

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	92		88		10-120
2-Fluorobiphenyl	72		71		15-120
2-Fluorophenol	48		47		21-120
4-Terphenyl-d14	78		74		41-149
Nitrobenzene-d5	72		72		23-120
Phenol-d6	37		36		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108825-4 WG1108825-5 QC Sample: L1813851-03 Client ID: RMW06_041918												
Perfluorobutanoic Acid (PFBA)	4.42	41.7	45.7	99		49.2	98		50-150	7		30
Perfluoropentanoic Acid (PFPeA)	2.25	41.7	43.1	98		47.9	100		50-150	11		30
Perfluorobutanesulfonic Acid (PFBS)	1.42J	41.7	42.6	102		47.5	105		50-150	11		30
Perfluoroheptanoic Acid (PFHpA)	1.27J	41.7	41.6	100		44.7	98		50-150	7		30
Perfluoroheptanesulfonic Acid (PFHxS)	5.48	41.7	51.4	110		53.0	105		50-150	3		30
Perfluorooctanoic Acid (PFOA)	6.60	41.7	45.8	94		50.2	96		50-150	9		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	41.7	38.7	93		45.1	99		50-150	15		30
Perfluoroheptanesulfonic Acid (PFHpS)	0.565J	41.7	45.5	109		52.2	115		50-150	14		30
Perfluorononanoic Acid (PFNA)	ND	41.7	42.4	102		47.3	104		50-150	11		30
Perfluorooctanesulfonic Acid (PFOS)	3.55	41.7	38.2	83		45.8	93		50-150	18		30
Perfluorodecanoic Acid (PFDA)	ND	41.7	42.1	101		48.8	107		50-150	15		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	41.7	38.6	93		42.3	93		50-150	9		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	41.7	41.7	100		44.2	97		50-150	6		30
Perfluoroundecanoic Acid (PFUnA)	ND	41.7	40.7	98		42.6	94		50-150	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	41.7	29.7	71		31.4	69		50-150	6		30
Perfluorooctanesulfonamide (FOSA)	ND	41.7	39.6	95		44.5	98		50-150	12		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	41.7	40.2	96		42.5	94		50-150	6		30
Perfluorododecanoic Acid (PFDoA)	ND	41.7	36.7	88		41.4	91		50-150	12		30
Perfluorotridecanoic Acid (PFTrDA)	ND	41.7	30.0	72		31.8	70		50-150	6		30
Perfluorotetradecanoic Acid (PFTTA)	ND	41.7	45.0	108		42.8	94		50-150	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108825-4 WG1108825-5 QC Sample: L1813851-03
Client ID: RMW06_041918

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	127		132		50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	187	Q	183	Q	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		82		50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	85		89		50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		97		50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		90		50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		79		50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		96		50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		111		50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		74		50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	52		54		50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	66		76		50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	68		68		50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26	Q	30	Q	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		90		50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		102		50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		96		50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		96		50-150

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1109045-4 WG1109045-5 QC Sample: L1813851-03 Client ID: RMW06_041918												
1,4-Dioxane	133.J	5430	5970	110		6320	111		40-140	6		30

Surrogate	MS % Recovery Qualifier		MSD % Recovery Qualifier		Acceptance Criteria
1,4-Dioxane-d8		30		31	15-110

PCBS

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
Client ID: RMW01_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/25/18 23:57
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 15:39
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
Client ID: RMW05_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/24/18 14:45
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 15:39
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	39		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
Client ID: RMW06_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/24/18 14:58
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 15:39
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
Client ID: RMW07_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/24/18 15:10
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 15:39
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
Client ID: RMW08_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/24/18 15:22
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 15:39
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
Client ID: RMW09_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/24/18 15:35
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 15:39
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/24/18 13:31
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 15:39
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/18
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG1108753-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	57		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1108753-2 WG1108753-3									
Aroclor 1016	74		75		40-140	2		50	A
Aroclor 1260	63		67		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		75		30-150	A
Decachlorobiphenyl	52		54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		69		30-150	B
Decachlorobiphenyl	65		69		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108753-4 WG1108753-5 QC Sample: L1813851-03 Client ID: RMW06_041918													
Aroclor 1016	ND	2.6	1.71	66		1.87	72		40-140	9		50	A
Aroclor 1260	ND	2.6	1.44	55		1.57	60		40-140	9		50	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	67		77		30-150	A
Decachlorobiphenyl	29	Q	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		71		30-150	B
Decachlorobiphenyl	37		43		30-150	B

PESTICIDES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
Client ID: RMW01_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/25/18 19:19
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 03:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/22/18 07:05
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/21/18 00:11

Methylation Date: 04/21/18 15:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	95		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
Client ID: RMW05_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/23/18 18:43
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 03:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
 Client ID: RMW05_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
 Client ID: RMW05_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/22/18 07:24
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/21/18 00:11

Methylation Date: 04/21/18 15:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	111		30-150	A
DCAA	96		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
Client ID: RMW06_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/23/18 18:55
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 03:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
 Client ID: RMW06_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
 Client ID: RMW06_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/22/18 06:46
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/21/18 00:11

Methylation Date: 04/21/18 15:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	143		30-150	A
DCAA	117		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
Client ID: RMW07_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/23/18 19:33
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 03:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	0.007	J	ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
 Client ID: RMW07_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
 Client ID: RMW07_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/22/18 07:43
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/21/18 00:11

Methylation Date: 04/21/18 15:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	148		30-150	A
DCAA	134		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
Client ID: RMW08_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/25/18 19:32
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 03:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
Client ID: RMW08_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
 Client ID: RMW08_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/22/18 08:20
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/21/18 00:11

Methylation Date: 04/21/18 15:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	124		30-150	A
DCAA	109		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
Client ID: RMW09_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
Date Received: 04/19/18
Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/23/18 19:59
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 03:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
 Client ID: RMW09_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
 Client ID: RMW09_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/22/18 08:39
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 04/21/18 00:11

Methylation Date: 04/21/18 15:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	109		30-150	A
DCAA	95		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/21/18 15:17
Analyst: BM

Extraction Method: EPA 8151A
Extraction Date: 04/20/18 01:06

Methylation Date: 04/20/18 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1108142-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	130		30-150	A
DCAA	117		30-150	B

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/23/18 17:52
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/22/18 03:48

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1108711-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin aldehyde	ND		ug/l	0.040	0.008	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 04/23/18 17:52
 Analyst: KEG

Extraction Method: EPA 3510C
 Extraction Date: 04/22/18 03:48

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1108711-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	72		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1108142-2 WG1108142-3									
2,4-D	88		98		30-150	11		25	A
2,4,5-T	96		107		30-150	11		25	A
2,4,5-TP (Silvex)	89		99		30-150	11		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	113		127		30-150	A
DCAA	114		127		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1108711-2 WG1108711-3									
Delta-BHC	60		60		30-150	1		20	A
Lindane	62		57		30-150	9		20	A
Alpha-BHC	62		57		30-150	9		20	A
Beta-BHC	66		62		30-150	6		20	A
Heptachlor	63		60		30-150	5		20	A
Aldrin	64		61		30-150	5		20	A
Heptachlor epoxide	68		65		30-150	4		20	A
Endrin	65		62		30-150	5		20	A
Endrin aldehyde	51		59		30-150	15		20	A
Endrin ketone	71		74		30-150	5		20	A
Dieldrin	67		65		30-150	3		20	A
4,4'-DDE	60		60		30-150	0		20	A
4,4'-DDD	61		60		30-150	1		20	A
4,4'-DDT	61		61		30-150	1		20	A
Endosulfan I	65		64		30-150	3		20	A
Endosulfan II	60		63		30-150	6		20	A
Endosulfan sulfate	60		66		30-150	9		20	A
Methoxychlor	64		63		30-150	2		20	A
cis-Chlordane	64		63		30-150	2		20	A
trans-Chlordane	64		63		30-150	2		20	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1108711-2 WG1108711-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	62		59		30-150	A
Decachlorobiphenyl	64		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		59		30-150	B
Decachlorobiphenyl	58		70		30-150	B

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108142-4 WG1108142-5 QC Sample: L1813851-03 Client ID: RMW06_041918													
2,4-D	ND	5	5.79J	116		5.57J	111		30-150	4		25	A
2,4,5-T	ND	5	6.24	125		5.93	119		30-150	5		25	A
2,4,5-TP (Silvex)	ND	5	6.06	121		5.93	119		30-150	2		25	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
DCAA	158	Q	150		30-150	A
DCAA	586	Q	636	Q	30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Organochlorine Pesticides by GC - Westborough Lab ID: RMW06_041918 Associated sample(s): 01-06 QC Batch ID: WG1108711-4 WG1108711-5 QC Sample: L1813851-03 Client													
Delta-BHC	ND	0.5	0.411	82		0.412	82		30-150	0		30	A
Lindane	ND	0.5	0.385	77		0.390	78		30-150	1		30	A
Alpha-BHC	ND	0.5	0.384	77		0.390	78		30-150	2		30	A
Beta-BHC	ND	0.5	0.417	83		0.406	81		30-150	3		30	A
Heptachlor	ND	0.5	0.402	80		0.389	78		30-150	3		30	A
Aldrin	ND	0.5	0.419	84		0.399	80		30-150	5		30	A
Heptachlor epoxide	ND	0.5	0.448	90		0.420	84		30-150	6		30	A
Endrin	ND	0.5	0.436	87		0.409	82		30-150	6		30	A
Endrin aldehyde	ND	0.5	0.419	84		0.386	77		30-150	8		30	A
Endrin ketone	ND	0.5	0.500	100		0.464	93		30-150	7		30	A
Dieldrin	ND	0.5	0.449	90		0.420	84		30-150	7		30	A
4,4'-DDE	ND	0.5	0.410	82		0.375	75		30-150	9		30	A
4,4'-DDD	ND	0.5	0.414	83		0.381	76		30-150	8		30	A
4,4'-DDT	ND	0.5	0.435	87		0.396	79		30-150	9		30	A
Endosulfan I	ND	0.5	0.437	87		0.402	80		30-150	8		30	A
Endosulfan II	ND	0.5	0.433	87		0.404	81		30-150	7		30	A
Endosulfan sulfate	ND	0.5	0.452	90		0.422	84		30-150	7		30	A
Methoxychlor	ND	0.5	0.436	87		0.403	81		30-150	8		30	A
cis-Chlordane	ND	0.5	0.420	84		0.392	78		30-150	7		30	A
trans-Chlordane	ND	0.5	0.424	85		0.399	80		30-150	6		30	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108711-4 WG1108711-5 QC Sample: L1813851-03 Client ID: RMW06_041918												

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>	<i>Column</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>		
2,4,5,6-Tetrachloro-m-xylene	78		81		30-150	A
Decachlorobiphenyl	85		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		87		30-150	B
Decachlorobiphenyl	78		79		30-150	B

METALS

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7.04		mg/l	0.0100	0.00327	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Antimony, Total	0.00079	J	mg/l	0.00400	0.00042	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00899		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Barium, Total	0.1493		mg/l	0.00050	0.00017	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00051		mg/l	0.00050	0.00010	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00013	J	mg/l	0.00020	0.00005	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Calcium, Total	144.		mg/l	0.100	0.0394	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Chromium, Total	0.01564		mg/l	0.00100	0.00017	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Cobalt, Total	0.02476		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Copper, Total	0.02194		mg/l	0.00100	0.00038	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Iron, Total	20.6		mg/l	0.0500	0.0191	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Lead, Total	0.02161		mg/l	0.00100	0.00034	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Magnesium, Total	17.7		mg/l	0.0700	0.0242	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Manganese, Total	0.6582		mg/l	0.00100	0.00044	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/23/18 15:22	04/24/18 19:11	EPA 7470A	1,7470A	EA
Nickel, Total	0.01857		mg/l	0.00200	0.00055	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Potassium, Total	17.1		mg/l	0.100	0.0309	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Selenium, Total	0.00225	J	mg/l	0.00500	0.00173	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Sodium, Total	626.		mg/l	10.0	2.93	100	04/20/18 14:20	04/24/18 16:35	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Vanadium, Total	0.01593		mg/l	0.00500	0.00157	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
Zinc, Total	0.03963		mg/l	0.01000	0.00341	1	04/20/18 14:20	04/24/18 15:05	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.016		mg/l	0.010	0.010	1		04/24/18 15:05	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01
 Client ID: RMW01_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0177		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00099	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00135		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.1254		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Calcium, Dissolved	141.		mg/l	0.100	0.0394	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00021	J	mg/l	0.00100	0.00017	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00429		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Iron, Dissolved	0.605		mg/l	0.0500	0.0191	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Lead, Dissolved	0.00068	J	mg/l	0.00100	0.00034	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	14.8		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.3524		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/23/18 12:42	04/24/18 18:41	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.00242		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Potassium, Dissolved	17.0		mg/l	0.100	0.0309	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Sodium, Dissolved	592.		mg/l	2.00	0.586	20	04/20/18 13:00	04/24/18 15:30	EPA 3005A	1,6020A	AM
Thallium, Dissolved	0.00017	J	mg/l	0.00050	0.00014	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/24/18 12:36	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
 Client ID: RMW05_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7.49		mg/l	0.0100	0.00327	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Antimony, Total	0.00060	J	mg/l	0.00400	0.00042	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00822		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Barium, Total	0.2768		mg/l	0.00050	0.00017	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00041	J	mg/l	0.00050	0.00010	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00046		mg/l	0.00020	0.00005	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Calcium, Total	324.		mg/l	0.100	0.0394	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Chromium, Total	0.01455		mg/l	0.00100	0.00017	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Cobalt, Total	0.01436		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Copper, Total	0.04387		mg/l	0.00100	0.00038	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Iron, Total	28.1		mg/l	0.0500	0.0191	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Lead, Total	0.01875		mg/l	0.00100	0.00034	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Magnesium, Total	62.9		mg/l	0.0700	0.0242	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Manganese, Total	4.309		mg/l	0.00100	0.00044	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/23/18 15:22	04/24/18 19:17	EPA 7470A	1,7470A	EA
Nickel, Total	0.02399		mg/l	0.00200	0.00055	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Potassium, Total	28.3		mg/l	0.100	0.0309	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Selenium, Total	0.00535		mg/l	0.00500	0.00173	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Sodium, Total	1590		mg/l	10.0	2.93	100	04/20/18 14:20	04/24/18 17:16	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Vanadium, Total	0.01517		mg/l	0.00500	0.00157	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
Zinc, Total	0.04949		mg/l	0.01000	0.00341	1	04/20/18 14:20	04/24/18 15:10	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.014		mg/l	0.010	0.010	1		04/24/18 15:10	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02
 Client ID: RMW05_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00049	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00205		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.2417		mg/l	0.00250	0.00086	5	04/20/18 13:00	04/24/18 15:34	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	0.00017	J	mg/l	0.00020	0.00005	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Calcium, Dissolved	340.		mg/l	0.100	0.0394	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00033	J	mg/l	0.00100	0.00017	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00434		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00056	J	mg/l	0.00100	0.00038	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Iron, Dissolved	0.749		mg/l	0.0500	0.0191	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00500	0.00171	5	04/20/18 13:00	04/24/18 15:34	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	59.4		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Manganese, Dissolved	3.976		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/23/18 12:42	04/24/18 18:43	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.00576		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Potassium, Dissolved	29.1		mg/l	0.100	0.0309	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Selenium, Dissolved	0.00382	J	mg/l	0.00500	0.00173	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Sodium, Dissolved	1660		mg/l	2.00	0.586	20	04/20/18 13:00	04/24/18 15:38	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00250	0.00071	5	04/20/18 13:00	04/24/18 15:34	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/24/18 12:40	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
 Client ID: RMW06_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3.04		mg/l	0.0100	0.00327	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Antimony, Total	0.00138	J	mg/l	0.00400	0.00042	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00174		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Barium, Total	0.2247		mg/l	0.00050	0.00017	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00014	J	mg/l	0.00050	0.00010	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00010	J	mg/l	0.00020	0.00005	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Calcium, Total	148.		mg/l	0.100	0.0394	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Chromium, Total	0.00676		mg/l	0.00100	0.00017	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00486		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Copper, Total	0.00859		mg/l	0.00100	0.00038	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Iron, Total	8.03		mg/l	0.0500	0.0191	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Lead, Total	0.00500		mg/l	0.00100	0.00034	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Magnesium, Total	47.8		mg/l	0.0700	0.0242	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Manganese, Total	5.484		mg/l	0.00100	0.00044	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/23/18 15:22	04/24/18 19:06	EPA 7470A	1,7470A	EA
Nickel, Total	0.00675		mg/l	0.00200	0.00055	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Potassium, Total	12.3		mg/l	0.100	0.0309	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Sodium, Total	395.		mg/l	0.100	0.0293	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Thallium, Total	0.00025	J	mg/l	0.00050	0.00014	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Vanadium, Total	0.00568		mg/l	0.00500	0.00157	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
Zinc, Total	0.01367		mg/l	0.01000	0.00341	1	04/20/18 14:20	04/24/18 13:50	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		04/24/18 13:50	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03
 Client ID: RMW06_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0314		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00283	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00060		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.2154		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	0.00007	J	mg/l	0.00020	0.00005	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Calcium, Dissolved	154.		mg/l	0.100	0.0394	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00087	J	mg/l	0.00100	0.00017	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00216		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00118		mg/l	0.00100	0.00038	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Iron, Dissolved	1.88		mg/l	0.0500	0.0191	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	48.7		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Manganese, Dissolved	5.559		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/23/18 12:42	04/24/18 18:27	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.00155	J	mg/l	0.00200	0.00055	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Potassium, Dissolved	12.7		mg/l	0.100	0.0309	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Sodium, Dissolved	398.		mg/l	0.100	0.0293	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Thallium, Dissolved	0.00017	J	mg/l	0.00050	0.00014	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/24/18 12:20	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
 Client ID: RMW07_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.429		mg/l	0.0100	0.00327	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Antimony, Total	0.00050	J	mg/l	0.00400	0.00042	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00098		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Barium, Total	0.2789		mg/l	0.00050	0.00017	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Calcium, Total	150.		mg/l	0.100	0.0394	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Chromium, Total	0.00278		mg/l	0.00100	0.00017	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00151		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Copper, Total	0.00476		mg/l	0.00100	0.00038	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Iron, Total	1.96		mg/l	0.0500	0.0191	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Lead, Total	0.00121		mg/l	0.00100	0.00034	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Magnesium, Total	34.6		mg/l	0.0700	0.0242	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Manganese, Total	1.402		mg/l	0.00100	0.00044	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/23/18 15:22	04/24/18 19:18	EPA 7470A	1,7470A	EA
Nickel, Total	0.00417		mg/l	0.00200	0.00055	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Potassium, Total	17.3		mg/l	0.100	0.0309	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Sodium, Total	674.		mg/l	10.0	2.93	100	04/20/18 14:20	04/24/18 17:20	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/20/18 14:20	04/24/18 15:14	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		04/24/18 15:14	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04
 Client ID: RMW07_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0148		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00059	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00092		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.2758		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Calcium, Dissolved	154.		mg/l	0.100	0.0394	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00115		mg/l	0.00100	0.00017	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00125		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00344		mg/l	0.00100	0.00038	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Iron, Dissolved	1.02		mg/l	0.0500	0.0191	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	34.7		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Manganese, Dissolved	1.409		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/23/18 12:42	04/24/18 18:45	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.00340		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Potassium, Dissolved	17.6		mg/l	0.100	0.0309	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Sodium, Dissolved	665.		mg/l	2.00	0.586	20	04/20/18 13:00	04/24/18 15:42	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM
Zinc, Dissolved	0.00469	J	mg/l	0.01000	0.00341	1	04/20/18 13:00	04/24/18 12:44	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
 Client ID: RMW08_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.105		mg/l	0.0100	0.00327	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00043	J	mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Barium, Total	0.2772		mg/l	0.00050	0.00017	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Calcium, Total	203.		mg/l	0.100	0.0394	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Chromium, Total	0.00097	J	mg/l	0.00100	0.00017	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00063		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Copper, Total	0.00063	J	mg/l	0.00100	0.00038	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Iron, Total	4.66		mg/l	0.0500	0.0191	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Lead, Total	0.00119		mg/l	0.00100	0.00034	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Magnesium, Total	50.5		mg/l	0.0700	0.0242	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Manganese, Total	1.426		mg/l	0.00100	0.00044	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/23/18 15:22	04/24/18 19:20	EPA 7470A	1,7470A	EA
Nickel, Total	0.00068	J	mg/l	0.00200	0.00055	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Potassium, Total	52.4		mg/l	0.100	0.0309	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Sodium, Total	282.		mg/l	0.100	0.0293	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Vanadium, Total	0.00208	J	mg/l	0.00500	0.00157	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/20/18 14:20	04/24/18 15:25	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		04/24/18 15:25	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
 Client ID: RMW08_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00519	J	mg/l	0.0100	0.00327	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00031	J	mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.2882		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Calcium, Dissolved	202.		mg/l	0.100	0.0394	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00083	J	mg/l	0.00100	0.00017	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00053		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Iron, Dissolved	4.99		mg/l	0.0500	0.0191	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	52.7		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Manganese, Dissolved	1.462		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/23/18 12:42	04/24/18 18:47	EPA 7470A	1,7470A	EA
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Potassium, Dissolved	51.5		mg/l	0.100	0.0309	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Sodium, Dissolved	317.		mg/l	0.100	0.0293	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	0.00194	J	mg/l	0.00500	0.00157	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/24/18 12:48	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
 Client ID: RMW09_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0417		mg/l	0.0100	0.00327	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Antimony, Total	0.00083	J	mg/l	0.00400	0.00042	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00026	J	mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Barium, Total	0.1186		mg/l	0.00050	0.00017	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Calcium, Total	78.9		mg/l	0.100	0.0394	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Chromium, Total	0.00068	J	mg/l	0.00100	0.00017	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00023	J	mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Copper, Total	0.00171		mg/l	0.00100	0.00038	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Iron, Total	0.0769		mg/l	0.0500	0.0191	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Lead, Total	0.00090	J	mg/l	0.00100	0.00034	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Magnesium, Total	12.1		mg/l	0.0700	0.0242	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Manganese, Total	0.00740		mg/l	0.00100	0.00044	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/23/18 15:22	04/24/18 19:22	EPA 7470A	1,7470A	EA
Nickel, Total	0.00086	J	mg/l	0.00200	0.00055	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Potassium, Total	12.6		mg/l	0.100	0.0309	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Sodium, Total	508.		mg/l	10.0	2.93	100	04/20/18 14:20	04/24/18 17:24	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
Zinc, Total	0.00657	J	mg/l	0.01000	0.00341	1	04/20/18 14:20	04/24/18 15:58	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		04/24/18 15:58	NA	107,-	



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
 Client ID: RMW09_041918
 Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
 Date Received: 04/19/18
 Field Prep: Field Filtered (Dissolved Metals)

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0194		mg/l	0.0100	0.00327	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00239	J	mg/l	0.00400	0.00042	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00039	J	mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.06292		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Calcium, Dissolved	82.8		mg/l	0.100	0.0394	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00061	J	mg/l	0.00100	0.00017	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00074		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00216		mg/l	0.00100	0.00038	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Iron, Dissolved	0.0388	J	mg/l	0.0500	0.0191	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Lead, Dissolved	0.00136		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	12.6		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.09596		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/23/18 12:42	04/24/18 18:48	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.00108	J	mg/l	0.00200	0.00055	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Potassium, Dissolved	12.8		mg/l	0.100	0.0309	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Sodium, Dissolved	550.		mg/l	2.00	0.586	20	04/20/18 13:00	04/24/18 15:46	EPA 3005A	1,6020A	AM
Thallium, Dissolved	0.00015	J	mg/l	0.00050	0.00014	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM
Zinc, Dissolved	0.00365	J	mg/l	0.01000	0.00341	1	04/20/18 13:00	04/24/18 13:28	EPA 3005A	1,6020A	AM



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1108387-1										
Aluminum, Dissolved	0.00985	J	mg/l	0.0100	0.00327	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Cadmium, Dissolved	0.00009	J	mg/l	0.00020	0.00005	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Iron, Dissolved	0.0402	J	mg/l	0.0500	0.0191	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Sodium, Dissolved	0.0348	J	mg/l	0.100	0.0293	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	04/20/18 13:00	04/24/18 11:31	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1108397-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Antimony, Total	0.00061	J	mg/l	0.00400	0.00042	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Method Blank Analysis Batch Quality Control

Beryllium, Total	ND	mg/l	0.00050	0.00010	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Calcium, Total	ND	mg/l	0.100	0.0394	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Chromium, Total	ND	mg/l	0.00100	0.00017	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Cobalt, Total	ND	mg/l	0.00050	0.00016	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Copper, Total	ND	mg/l	0.00100	0.00038	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Iron, Total	ND	mg/l	0.0500	0.0191	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Lead, Total	ND	mg/l	0.00100	0.00034	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Magnesium, Total	ND	mg/l	0.0700	0.0242	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Manganese, Total	ND	mg/l	0.00100	0.00044	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Nickel, Total	ND	mg/l	0.00200	0.00055	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Potassium, Total	ND	mg/l	0.100	0.0309	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Selenium, Total	ND	mg/l	0.00500	0.00173	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Silver, Total	ND	mg/l	0.00040	0.00016	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Sodium, Total	ND	mg/l	0.100	0.0293	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Thallium, Total	ND	mg/l	0.00050	0.00014	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Vanadium, Total	ND	mg/l	0.00500	0.00157	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM
Zinc, Total	ND	mg/l	0.01000	0.00341	1	04/20/18 14:20	04/24/18 14:11	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1108912-1									
Mercury, Dissolved	ND	mg/l	0.00020	0.00006	1	04/23/18 12:42	04/24/18 18:24	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1108956-1									
Mercury, Total	ND	mg/l	0.00020	0.00006	1	04/23/18 15:22	04/24/18 19:02	1,7470A	EA



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Dissolved Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1108387-2								
Aluminum, Dissolved	106		-		80-120	-		
Antimony, Dissolved	99		-		80-120	-		
Arsenic, Dissolved	107		-		80-120	-		
Barium, Dissolved	102		-		80-120	-		
Beryllium, Dissolved	108		-		80-120	-		
Cadmium, Dissolved	110		-		80-120	-		
Calcium, Dissolved	105		-		80-120	-		
Chromium, Dissolved	98		-		80-120	-		
Cobalt, Dissolved	99		-		80-120	-		
Copper, Dissolved	104		-		80-120	-		
Iron, Dissolved	106		-		80-120	-		
Lead, Dissolved	103		-		80-120	-		
Magnesium, Dissolved	104		-		80-120	-		
Manganese, Dissolved	101		-		80-120	-		
Nickel, Dissolved	103		-		80-120	-		
Potassium, Dissolved	104		-		80-120	-		
Selenium, Dissolved	109		-		80-120	-		
Silver, Dissolved	105		-		80-120	-		
Sodium, Dissolved	98		-		80-120	-		
Thallium, Dissolved	102		-		80-120	-		
Vanadium, Dissolved	99		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 4650 BROADWAY**Project Number:** 170505502**Lab Number:** L1813851**Report Date:** 04/27/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1108387-2					
Zinc, Dissolved	108	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1108397-2					
Aluminum, Total	104	-	80-120	-	
Antimony, Total	94	-	80-120	-	
Arsenic, Total	104	-	80-120	-	
Barium, Total	99	-	80-120	-	
Beryllium, Total	103	-	80-120	-	
Cadmium, Total	107	-	80-120	-	
Calcium, Total	105	-	80-120	-	
Chromium, Total	96	-	80-120	-	
Cobalt, Total	97	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	100	-	80-120	-	
Lead, Total	101	-	80-120	-	
Magnesium, Total	102	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	101	-	80-120	-	
Selenium, Total	105	-	80-120	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	96	-	80-120	-	
Thallium, Total	100	-	80-120	-	
Vanadium, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1108397-2					
Zinc, Total	106	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1108912-2					
Mercury, Dissolved	103	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1108956-2					
Mercury, Total	103	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108387-3 WG1108387-4 QC Sample: L1813851-03 Client ID: RMW06_041918												
Aluminum, Dissolved	0.0314	2	2.14	105		2.20	108		75-125	3		20
Antimony, Dissolved	0.00283J	0.5	0.5720	114		0.5880	118		75-125	3		20
Arsenic, Dissolved	0.00060	0.12	0.1336	111		0.1353	112		75-125	1		20
Barium, Dissolved	0.2154	2	2.254	102		2.330	106		75-125	3		20
Beryllium, Dissolved	ND	0.05	0.05443	109		0.05511	110		75-125	1		20
Cadmium, Dissolved	0.00007J	0.051	0.05611	110		0.05759	113		75-125	3		20
Calcium, Dissolved	154.	10	160	60	Q	163	90		75-125	2		20
Chromium, Dissolved	0.00087J	0.2	0.2032	102		0.2069	103		75-125	2		20
Cobalt, Dissolved	0.00216	0.5	0.5179	103		0.5250	104		75-125	1		20
Copper, Dissolved	0.00118	0.25	0.2680	107		0.2690	107		75-125	0		20
Iron, Dissolved	1.88	1	2.89	101		2.92	104		75-125	1		20
Lead, Dissolved	ND	0.51	0.5418	106		0.5579	109		75-125	3		20
Magnesium, Dissolved	48.7	10	57.9	92		58.4	97		75-125	1		20
Manganese, Dissolved	5.559	0.5	5.634	15	Q	5.667	22	Q	75-125	1		20
Nickel, Dissolved	0.00155J	0.5	0.5345	107		0.5334	107		75-125	0		20
Potassium, Dissolved	12.7	10	22.8	101		22.8	101		75-125	0		20
Selenium, Dissolved	ND	0.12	0.128	107		0.131	109		75-125	2		20
Silver, Dissolved	ND	0.05	0.05223	104		0.05370	107		75-125	3		20
Sodium, Dissolved	398.	10	390	0	Q	395	0	Q	75-125	1		20
Thallium, Dissolved	0.00017J	0.12	0.1253	104		0.1300	108		75-125	4		20
Vanadium, Dissolved	ND	0.5	0.5085	102		0.5161	103		75-125	1		20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108387-3 WG1108387-4 QC Sample: L1813851-03 Client ID: RMW06_041918									
Zinc, Dissolved	ND	0.5	0.5520	110	0.5595	112	75-125	1	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108397-3 WG1108397-4 QC Sample: L1813841-01 Client ID: MS Sample									
Aluminum, Total	0.00582J	2	2.08	104	2.11	106	75-125	1	20
Antimony, Total	0.00065J	0.5	0.4816	96	0.5065	101	75-125	5	20
Arsenic, Total	0.00049J	0.12	0.1274	106	0.1295	108	75-125	2	20
Barium, Total	0.04709	2	2.040	100	2.081	102	75-125	2	20
Beryllium, Total	ND	0.05	0.05466	109	0.05316	106	75-125	3	20
Cadmium, Total	0.00006J	0.051	0.05459	107	0.05567	109	75-125	2	20
Calcium, Total	125.	10	128	30	Q 136	110	75-125	6	20
Chromium, Total	0.00046J	0.2	0.1922	96	0.1960	98	75-125	2	20
Cobalt, Total	ND	0.5	0.4847	97	0.4950	99	75-125	2	20
Copper, Total	0.00157	0.25	0.2547	101	0.2616	104	75-125	3	20
Iron, Total	0.0384J	1	1.04	104	1.08	108	75-125	4	20
Lead, Total	ND	0.51	0.5206	102	0.5239	103	75-125	1	20
Magnesium, Total	32.5	10	42.4	99	44.0	115	75-125	4	20
Manganese, Total	0.3138	0.5	0.7693	91	0.8147	100	75-125	6	20
Nickel, Total	0.00125J	0.5	0.5005	100	0.5179	104	75-125	3	20
Potassium, Total	1.80	10	11.9	101	12.1	103	75-125	2	20
Selenium, Total	0.0283	0.12	0.157	107	0.158	108	75-125	1	20
Silver, Total	ND	0.05	0.05097	102	0.05213	104	75-125	2	20
Sodium, Total	1.46	10	13.6	121	11.7	102	75-125	15	20
Thallium, Total	ND	0.12	0.1188	99	0.1218	102	75-125	2	20
Vanadium, Total	ND	0.5	0.4829	96	0.4952	99	75-125	3	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108397-3 WG1108397-4 QC Sample: L1813841-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5352	107	0.5504	110	75-125	3	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits		
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108397-7 WG1108397-8 QC Sample: L1813851-03 Client ID: RMW06_041918											
Aluminum, Total	3.04	2	5.92	144	Q	5.99	148	Q	75-125	1	20
Antimony, Total	0.00138J	0.5	0.5473	109		0.5480	110		75-125	0	20
Arsenic, Total	0.00174	0.12	0.1286	106		0.1285	106		75-125	0	20
Barium, Total	0.2247	2	2.266	102		2.248	101		75-125	1	20
Beryllium, Total	0.00014J	0.05	0.05390	108		0.05268	105		75-125	2	20
Cadmium, Total	0.00010J	0.051	0.05579	109		0.05491	108		75-125	2	20
Calcium, Total	148.	10	155	70	Q	158	100		75-125	2	20
Chromium, Total	0.00676	0.2	0.2042	99		0.2030	98		75-125	1	20
Cobalt, Total	0.00486	0.5	0.5143	102		0.4992	99		75-125	3	20
Copper, Total	0.00859	0.25	0.2775	108		0.2638	102		75-125	5	20
Iron, Total	8.03	1	9.17	114		8.91	88		75-125	3	20
Lead, Total	0.00500	0.51	0.5488	107		0.5388	105		75-125	2	20
Magnesium, Total	47.8	10	57.8	100		57.7	99		75-125	0	20
Manganese, Total	5.484	0.5	5.639	31	Q	5.669	37	Q	75-125	1	20
Nickel, Total	0.00675	0.5	0.5350	106		0.5106	101		75-125	5	20
Potassium, Total	12.3	10	22.2	99		22.6	103		75-125	2	20
Selenium, Total	ND	0.12	0.120	100		0.125	104		75-125	4	20
Silver, Total	ND	0.05	0.05177	104		0.05106	102		75-125	1	20
Sodium, Total	395.	10	386	0	Q	385	0	Q	75-125	0	20
Thallium, Total	0.00025J	0.12	0.1261	105		0.1248	104		75-125	1	20
Vanadium, Total	0.00568	0.5	0.5058	100		0.4994	99		75-125	1	20

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108397-7 WG1108397-8 QC Sample: L1813851-03 Client ID: RMW06_041918									
Zinc, Total	0.01367	0.5	0.5760	112	0.5563	108	75-125	3	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108912-3 WG1108912-4 QC Sample: L1813851-03 Client ID: RMW06_041918									
Mercury, Dissolved	ND	0.005	0.00437	88	0.00440	88	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1108956-3 WG1108956-4 QC Sample: L1813851-03 Client ID: RMW06_041918									
Mercury, Total	ND	0.005	0.00471	94	0.00445	89	75-125	6	20

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-01

Client ID: RMW01_041918

Sample Location: NEW YORK, NY

Date Collected: 04/19/18 09:50

Date Received: 04/19/18

Field Prep: Field Filtered
(Dissolved Metals)

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/20/18 07:07	04/20/18 15:53	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/20/18 04:28	04/20/18 04:44	1,7196A	UN



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-02

Client ID: RMW05_041918

Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:30

Date Received: 04/19/18

Field Prep: Field Filtered
(Dissolved Metals)

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/20/18 07:07	04/20/18 15:54	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/20/18 04:28	04/20/18 04:44	1,7196A	UN



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-03

Client ID: RMW06_041918

Sample Location: NEW YORK, NY

Date Collected: 04/19/18 11:35

Date Received: 04/19/18

Field Prep: Field Filtered
(Dissolved Metals)

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	04/20/18 07:07	04/20/18 15:55	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/20/18 04:28	04/20/18 04:44	1,7196A	UN



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1813851

Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-04

Client ID: RMW07_041918

Sample Location: NEW YORK, NY

Date Collected: 04/19/18 13:40

Date Received: 04/19/18

Field Prep: Field Filtered
(Dissolved Metals)

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.004	J	mg/l	0.005	0.001	1	04/23/18 16:25	04/24/18 11:36	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/20/18 04:28	04/20/18 04:45	1,7196A	UN



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-05
Client ID: RMW08_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 14:25
Date Received: 04/19/18
Field Prep: Field Filtered
(Dissolved Metals)

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/20/18 07:07	04/20/18 16:01	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/20/18 04:28	04/20/18 04:45	1,7196A	UN



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

SAMPLE RESULTS

Lab ID: L1813851-06
Client ID: RMW09_041918
Sample Location: NEW YORK, NY

Date Collected: 04/19/18 16:05
Date Received: 04/19/18
Field Prep: Field Filtered
(Dissolved Metals)

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/20/18 07:07	04/20/18 16:02	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/20/18 04:28	04/20/18 04:45	1,7196A	UN



Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

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Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1108166-1									
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	04/20/18 04:28	04/20/18 04:41	1,7196A	UN
General Chemistry - Westborough Lab for sample(s): 01-03,05-06 Batch: WG1108205-1									
Cyanide, Total	ND	mg/l	0.005	0.001	1	04/20/18 07:07	04/20/18 15:47	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1108963-1									
Cyanide, Total	ND	mg/l	0.005	0.001	1	04/23/18 16:25	04/24/18 10:50	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1108166-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG1108205-2 WG1108205-3								
Cyanide, Total	95		94		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1108963-2 WG1108963-3								
Cyanide, Total	93		92		85-115	1		20

Matrix Spike Analysis Batch Quality Control

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Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108166-4 WG1108166-5 QC Sample: L1813851-03 Client ID: RMW06_041918												
Chromium, Hexavalent	ND	0.1	0.090	90		0.091	91		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,05-06 QC Batch ID: WG1108205-4 WG1108205-5 QC Sample: L1813851-03 Client ID: RMW06_041918												
Cyanide, Total	0.003J	0.2	0.187	94		0.482	241	Q	80-120	88	Q	20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1108963-4 WG1108963-5 QC Sample: L1814089-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.187	94		0.073	37	Q	80-120	87	Q	20

Lab Duplicate Analysis

Batch Quality Control

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Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1108166-3 QC Sample: L1813851-03 Client ID: RMW06_041918						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

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Project Number: 170505502

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent
E	Absent
F	Absent
G	Absent
H	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813851-01A	Vial HCl preserved	D	NA		4.0	Y	Absent		NYTCL-8260(14)
L1813851-01B	Vial HCl preserved	D	NA		4.0	Y	Absent		NYTCL-8260(14)
L1813851-01C	Vial HCl preserved	D	NA		4.0	Y	Absent		NYTCL-8260(14)
L1813851-01D	Plastic 250ml NaOH preserved	D	>12	>12	4.0	Y	Absent		TCN-9010(14)
L1813851-01E	Plastic 500ml unpreserved	D	7	7	4.0	Y	Absent		HEXCR-7196(1)
L1813851-01F	Plastic 250ml HNO3 preserved	D	<2	<2	4.0	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1813851-01G	Plastic 250ml HNO3 preserved	D	<2	<2	4.0	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days



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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813851-01H	Amber 500ml unpreserved	D	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-01I	Amber 500ml unpreserved	D	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-01J	Amber 500ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8081(7)
L1813851-01K	Amber 500ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8081(7)
L1813851-01L	Amber 1000ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-01M	Amber 1000ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-01N	Amber 1000ml unpreserved	D	7	7	4.0	Y	Absent		HERB-APA(7)
L1813851-01O	Amber 1000ml unpreserved	D	7	7	4.0	Y	Absent		HERB-APA(7)
L1813851-01P	Amber 1000ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-01Q	Amber 1000ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-01R	Plastic 250ml Trizma preserved	D	NA		4.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-01S	Plastic 250ml Trizma preserved	D	NA		4.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-01T	Plastic 250ml Trizma preserved	D	NA		4.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-02A	Vial HCl preserved	C	NA		3.0	Y	Absent		NYTCL-8260(14)
L1813851-02B	Vial HCl preserved	C	NA		3.0	Y	Absent		NYTCL-8260(14)
L1813851-02C	Vial HCl preserved	C	NA		3.0	Y	Absent		NYTCL-8260(14)
L1813851-02D	Plastic 250ml NaOH preserved	C	>12	>12	3.0	Y	Absent		TCN-9010(14)
L1813851-02E	Plastic 500ml unpreserved	C	7	7	3.0	Y	Absent		HEXCR-7196(1)
L1813851-02F	Plastic 250ml HNO3 preserved	C	<2	<2	3.0	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1813851-02G	Plastic 250ml HNO3 preserved	C	<2	<2	3.0	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)

Project Name: 4650 BROADWAY

Lab Number: L1813851

Project Number: 170505502

Report Date: 04/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813851-02H	Amber 500ml unpreserved	C	7	7	3.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-02I	Amber 500ml unpreserved	C	7	7	3.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-02J	Amber 500ml unpreserved	C	7	7	3.0	Y	Absent		NYTCL-8081(7)
L1813851-02K	Amber 500ml unpreserved	C	7	7	3.0	Y	Absent		NYTCL-8081(7)
L1813851-02L	Amber 1000ml unpreserved	C	7	7	3.0	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-02M	Amber 1000ml unpreserved	C	7	7	3.0	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-02N	Amber 1000ml unpreserved	C	7	7	3.0	Y	Absent		HERB-APA(7)
L1813851-02O	Amber 1000ml unpreserved	C	7	7	3.0	Y	Absent		HERB-APA(7)
L1813851-02P	Amber 1000ml unpreserved	C	7	7	3.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-02Q	Amber 1000ml unpreserved	C	7	7	3.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-02R	Plastic 250ml Trizma preserved	C	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-02S	Plastic 250ml Trizma preserved	C	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-02T	Plastic 250ml Trizma preserved	C	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-03A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L1813851-03A1	Vial HCl preserved	E	NA		4.2	Y	Absent		NYTCL-8260(14)
L1813851-03A2	Vial HCl preserved	F	NA		2.9	Y	Absent		NYTCL-8260(14)
L1813851-03B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L1813851-03B1	Vial HCl preserved	E	NA		4.2	Y	Absent		NYTCL-8260(14)
L1813851-03B2	Vial HCl preserved	F	NA		2.9	Y	Absent		NYTCL-8260(14)
L1813851-03C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L1813851-03C1	Vial HCl preserved	E	NA		4.2	Y	Absent		NYTCL-8260(14)
L1813851-03C2	Vial HCl preserved	F	NA		2.9	Y	Absent		NYTCL-8260(14)
L1813851-03D	Plastic 250ml NaOH preserved	A	>12	>12	2.4	Y	Absent		TCN-9010(14)
L1813851-03D1	Plastic 250ml NaOH preserved	E	>12	>12	4.2	Y	Absent		TCN-9010(14)
L1813851-03D2	Plastic 250ml NaOH preserved	F	>12	>12	2.9	Y	Absent		TCN-9010(14)
L1813851-03E	Plastic 500ml unpreserved	A	7	7	2.4	Y	Absent		HEXCR-7196(1)
L1813851-03E1	Plastic 500ml unpreserved	E	7	7	4.2	Y	Absent		HEXCR-7196(1)
L1813851-03E2	Plastic 500ml unpreserved	F	7	7	2.9	Y	Absent		HEXCR-7196(1)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813851-03F	Plastic 250ml HNO3 preserved	A	<2	<2	2.4	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)
L1813851-03F1	Plastic 250ml HNO3 preserved	E	<2	<2	4.2	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)
L1813851-03F2	Plastic 250ml HNO3 preserved	F	<2	<2	2.9	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)
L1813851-03G	Plastic 250ml HNO3 preserved	A	<2	<2	2.4	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)
L1813851-03G1	Plastic 250ml HNO3 preserved	E	<2	<2	4.2	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)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813851-03G2	Plastic 250ml HNO3 preserved	F	<2	<2	2.9	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1813851-03H	Amber 500ml unpreserved	A	7	7	2.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-03H1	Amber 500ml unpreserved	E	7	7	4.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-03H2	Amber 500ml unpreserved	F	7	7	2.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-03I	Amber 500ml unpreserved	A	7	7	2.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-03I1	Amber 500ml unpreserved	E	7	7	4.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-03I2	Amber 500ml unpreserved	F	7	7	2.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-03J	Amber 500ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8081(7)
L1813851-03J1	Amber 500ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8081(7)
L1813851-03J2	Amber 500ml unpreserved	F	7	7	2.9	Y	Absent		NYTCL-8081(7)
L1813851-03K	Amber 500ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8081(7)
L1813851-03K1	Amber 500ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8081(7)
L1813851-03K2	Amber 500ml unpreserved	F	7	7	2.9	Y	Absent		NYTCL-8081(7)
L1813851-03K3	Amber 500ml unpreserved	F	7	7	2.9	Y	Absent		NYTCL-8081(7)
L1813851-03L	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-03L1	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-03L2	Amber 1000ml unpreserved	F	7	7	2.9	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-03M	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-03M1	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-03M2	Amber 1000ml unpreserved	F	7	7	2.9	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-03N	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		HERB-APA(7)
L1813851-03N1	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		HERB-APA(7)
L1813851-03N2	Amber 1000ml unpreserved	F	7	7	2.9	Y	Absent		HERB-APA(7)
L1813851-03O	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		HERB-APA(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813851-03O1	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		HERB-APA(7)
L1813851-03O2	Amber 1000ml unpreserved	F	7	7	2.9	Y	Absent		HERB-APA(7)
L1813851-03P	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-03P1	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-03P2	Amber 1000ml unpreserved	F	7	7	2.9	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-03Q	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-03Q1	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-03Q2	Amber 1000ml unpreserved	F	7	7	2.9	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-03R	Plastic 250ml Trizma preserved	A	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-03R1	Plastic 250ml Trizma preserved	E	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-03R2	Plastic 250ml Trizma preserved	F	NA		2.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-03S	Plastic 250ml Trizma preserved	A	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-03S1	Plastic 250ml Trizma preserved	E	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-03S2	Plastic 250ml Trizma preserved	F	NA		2.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-03T	Plastic 250ml Trizma preserved	A	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-03T1	Plastic 250ml Trizma preserved	E	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-03T2	Plastic 250ml Trizma preserved	F	NA		2.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-04A	Vial HCl preserved	G	NA		2.2	Y	Absent		NYTCL-8260(14)
L1813851-04B	Vial HCl preserved	G	NA		2.2	Y	Absent		NYTCL-8260(14)
L1813851-04C	Vial HCl preserved	G	NA		2.2	Y	Absent		NYTCL-8260(14)
L1813851-04D	Plastic 250ml NaOH preserved	G	>12	>12	2.2	Y	Absent		TCN-9010(14)
L1813851-04E	Plastic 500ml unpreserved	G	7	7	2.2	Y	Absent		HEXCR-7196(1)
L1813851-04F	Plastic 250ml HNO3 preserved	G	<2	<2	2.2	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)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04271813:00
Lab Number: L1813851
Report Date: 04/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813851-04G	Plastic 250ml HNO3 preserved	G	<2	<2	2.2	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)
L1813851-04H	Amber 500ml unpreserved	G	7	7	2.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-04I	Amber 500ml unpreserved	G	7	7	2.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-04J	Amber 500ml unpreserved	G	7	7	2.2	Y	Absent		NYTCL-8081(7)
L1813851-04K	Amber 500ml unpreserved	G	7	7	2.2	Y	Absent		NYTCL-8081(7)
L1813851-04L	Amber 1000ml unpreserved	G	7	7	2.2	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-04M	Amber 1000ml unpreserved	G	7	7	2.2	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-04N	Amber 1000ml unpreserved	G	7	7	2.2	Y	Absent		HERB-APA(7)
L1813851-04O	Amber 1000ml unpreserved	G	7	7	2.2	Y	Absent		HERB-APA(7)
L1813851-04P	Amber 1000ml unpreserved	G	7	7	2.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-04Q	Amber 1000ml unpreserved	G	7	7	2.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-04R	Plastic 250ml Trizma preserved	G	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-04S	Plastic 250ml Trizma preserved	G	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-04T	Plastic 250ml Trizma preserved	G	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-05A	Vial HCl preserved	H	NA		2.5	Y	Absent		NYTCL-8260(14)
L1813851-05B	Vial HCl preserved	H	NA		2.5	Y	Absent		NYTCL-8260(14)
L1813851-05C	Vial HCl preserved	H	NA		2.5	Y	Absent		NYTCL-8260(14)
L1813851-05D	Plastic 250ml NaOH preserved	H	>12	>12	2.5	Y	Absent		TCN-9010(14)
L1813851-05E	Plastic 500ml unpreserved	H	7	7	2.5	Y	Absent		HEXCR-7196(1)
L1813851-05F	Plastic 250ml HNO3 preserved	H	<2	<2	2.5	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)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04271813:00
Lab Number: L1813851
Report Date: 04/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813851-05G	Plastic 250ml HNO3 preserved	H	<2	<2	2.5	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)
L1813851-05H	Amber 500ml unpreserved	H	7	7	2.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-05I	Amber 500ml unpreserved	H	7	7	2.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-05J	Amber 500ml unpreserved	H	7	7	2.5	Y	Absent		NYTCL-8081(7)
L1813851-05K	Amber 500ml unpreserved	H	7	7	2.5	Y	Absent		NYTCL-8081(7)
L1813851-05L	Amber 1000ml unpreserved	H	7	7	2.5	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-05M	Amber 1000ml unpreserved	H	7	7	2.5	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-05N	Amber 1000ml unpreserved	H	7	7	2.5	Y	Absent		HERB-APA(7)
L1813851-05O	Amber 1000ml unpreserved	H	7	7	2.5	Y	Absent		HERB-APA(7)
L1813851-05P	Amber 1000ml unpreserved	H	7	7	2.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-05Q	Amber 1000ml unpreserved	H	7	7	2.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-05R	Plastic 250ml Trizma preserved	H	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-05S	Plastic 250ml Trizma preserved	H	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-05T	Plastic 250ml Trizma preserved	H	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-05U	Plastic 250ml Trizma preserved	H	NA		2.5	Y	Absent		ARCHIVE()
L1813851-05V	Plastic 250ml Trizma preserved	H	NA		2.5	Y	Absent		ARCHIVE()
L1813851-05W	Plastic 250ml Trizma preserved	H	NA		2.5	Y	Absent		ARCHIVE()
L1813851-06A	Vial HCl preserved	B	NA		2.7	Y	Absent		NYTCL-8260(14)
L1813851-06B	Vial HCl preserved	B	NA		2.7	Y	Absent		NYTCL-8260(14)
L1813851-06C	Vial HCl preserved	B	NA		2.7	Y	Absent		NYTCL-8260(14)
L1813851-06D	Plastic 250ml NaOH preserved	B	>12	>12	2.7	Y	Absent		TCN-9010(14)
L1813851-06E	Plastic 500ml unpreserved	B	7	7	2.7	Y	Absent		HEXCR-7196(1)

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:04271813:00
Lab Number: L1813851
Report Date: 04/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1813851-06F	Plastic 250ml HNO3 preserved	B	<2	<2	2.7	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)
L1813851-06G	Plastic 250ml HNO3 preserved	B	<2	<2	2.7	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)
L1813851-06H	Amber 500ml unpreserved	B	7	7	2.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-06I	Amber 500ml unpreserved	B	7	7	2.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1813851-06J	Amber 500ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8081(7)
L1813851-06K	Amber 500ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8081(7)
L1813851-06L	Amber 1000ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-06M	Amber 1000ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1813851-06N	Amber 1000ml unpreserved	B	7	7	2.7	Y	Absent		HERB-APA(7)
L1813851-06O	Amber 1000ml unpreserved	B	7	7	2.7	Y	Absent		HERB-APA(7)
L1813851-06P	Amber 1000ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-06Q	Amber 1000ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813851-06R	Plastic 250ml Trizma preserved	B	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-06S	Plastic 250ml Trizma preserved	B	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-06T	Plastic 250ml Trizma preserved	B	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L1813851-07A	Vial HCl preserved	C	NA		3.0	Y	Absent		NYTCL-8260(14)
L1813851-07B	Vial HCl preserved	C	NA		3.0	Y	Absent		NYTCL-8260(14)
L1813851-07C	Vial HCl preserved	F	NA		2.9	Y	Absent		NYTCL-8260(14)
L1813851-07D	Vial HCl preserved	F	NA		2.9	Y	Absent		NYTCL-8260(14)
L1813851-08A	Plastic 250ml Trizma preserved	A	NA		2.4	Y	Absent		HOLD-537(14)

Project Name: 4650 BROADWAY

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Lab Number: L1813851

Report Date: 04/27/18

Container Information

Container ID Container Type

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
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Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns has been reported 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1813851
Report Date: 04/27/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

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 its 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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1828984
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	08/02/18

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Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1828984-01	RSB16_6-8	SOIL	NY, NY	07/26/18 16:20	07/26/18
L1828984-02	RSBTB04_072618	WATER	NY, NY	07/26/18 00:00	07/26/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

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

L1828984-01: The surrogate recovery is outside the acceptance criteria for 1,2-dichloroethane-d4 (131%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report. The results are not considered to be biased.

Gasoline Range Organics

L1828984-01: The surrogate recovery is outside the acceptance criteria for 1,1,1-trifluorotoluene (229%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report. The results are not considered to be biased.

Grain Size Analysis

The WG1142379-1 Laboratory Duplicate RPDs for % fine gravel (74%), % coarse sand (80%) and fines (29%), performed on L1828984-01, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Total Organic Carbon

The WG1142385-3 Laboratory Duplicate RPD for total organic carbon (rep2) (39%) and total organic carbon (average) (26%), performed on L1828984-01, is outside the acceptance criteria of 25%. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Amita Naik

Title: Technical Director/Representative

Date: 08/02/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-01 D

Date Collected: 07/26/18 16:20

Client ID: RSB16_6-8

Date Received: 07/26/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 08/02/18 11:20

Analyst: MV

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	3400	J	ug/kg	7400	3400	20
1,1-Dichloroethane	ND		ug/kg	1500	220	20
Chloroform	ND		ug/kg	2200	210	20
Carbon tetrachloride	ND		ug/kg	1500	340	20
1,2-Dichloropropane	ND		ug/kg	1500	180	20
Dibromochloromethane	ND		ug/kg	1500	210	20
1,1,2-Trichloroethane	ND		ug/kg	1500	400	20
Tetrachloroethene	ND		ug/kg	740	290	20
Chlorobenzene	ND		ug/kg	740	190	20
Trichlorofluoromethane	ND		ug/kg	5900	1000	20
1,2-Dichloroethane	ND		ug/kg	1500	380	20
1,1,1-Trichloroethane	ND		ug/kg	740	250	20
Bromodichloromethane	ND		ug/kg	740	160	20
trans-1,3-Dichloropropene	ND		ug/kg	1500	400	20
cis-1,3-Dichloropropene	ND		ug/kg	740	230	20
1,3-Dichloropropene, Total	ND		ug/kg	740	230	20
1,1-Dichloropropene	ND		ug/kg	740	240	20
Bromoform	ND		ug/kg	5900	360	20
1,1,2,2-Tetrachloroethane	ND		ug/kg	740	250	20
Benzene	ND		ug/kg	740	250	20
Toluene	ND		ug/kg	1500	810	20
Ethylbenzene	2400		ug/kg	1500	210	20
Chloromethane	ND		ug/kg	5900	1400	20
Bromomethane	ND		ug/kg	3000	860	20
Vinyl chloride	ND		ug/kg	1500	500	20
Chloroethane	ND		ug/kg	3000	670	20
1,1-Dichloroethene	ND		ug/kg	1500	350	20
trans-1,2-Dichloroethene	ND		ug/kg	2200	200	20

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-01 D

Date Collected: 07/26/18 16:20

Client ID: RSB16_6-8

Date Received: 07/26/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	740	200	20
1,2-Dichlorobenzene	ND		ug/kg	3000	210	20
1,3-Dichlorobenzene	ND		ug/kg	3000	220	20
1,4-Dichlorobenzene	ND		ug/kg	3000	250	20
Methyl tert butyl ether	ND		ug/kg	3000	300	20
p/m-Xylene	27000		ug/kg	3000	830	20
o-Xylene	4300		ug/kg	1500	430	20
Xylenes, Total	31000		ug/kg	1500	430	20
cis-1,2-Dichloroethene	ND		ug/kg	1500	260	20
1,2-Dichloroethene, Total	ND		ug/kg	1500	200	20
Dibromomethane	ND		ug/kg	3000	350	20
Styrene	ND		ug/kg	1500	290	20
Dichlorodifluoromethane	ND		ug/kg	15000	1400	20
Acetone	ND		ug/kg	15000	7200	20
Carbon disulfide	ND		ug/kg	15000	6800	20
2-Butanone	ND		ug/kg	15000	3300	20
Vinyl acetate	ND		ug/kg	15000	3200	20
4-Methyl-2-pentanone	ND		ug/kg	15000	1900	20
1,2,3-Trichloropropane	ND		ug/kg	3000	190	20
2-Hexanone	ND		ug/kg	15000	1800	20
Bromochloromethane	ND		ug/kg	3000	300	20
2,2-Dichloropropane	ND		ug/kg	3000	300	20
1,2-Dibromoethane	ND		ug/kg	1500	410	20
1,3-Dichloropropane	ND		ug/kg	3000	250	20
1,1,1,2-Tetrachloroethane	ND		ug/kg	740	200	20
Bromobenzene	ND		ug/kg	3000	220	20
n-Butylbenzene	9000		ug/kg	1500	250	20
sec-Butylbenzene	4500		ug/kg	1500	220	20
tert-Butylbenzene	ND		ug/kg	3000	180	20
o-Chlorotoluene	ND		ug/kg	3000	280	20
p-Chlorotoluene	ND		ug/kg	3000	160	20
1,2-Dibromo-3-chloropropane	ND		ug/kg	4400	1500	20
Hexachlorobutadiene	ND		ug/kg	5900	250	20
Isopropylbenzene	9600		ug/kg	1500	160	20
p-Isopropyltoluene	2700		ug/kg	1500	160	20
Naphthalene	7400		ug/kg	5900	970	20
Acrylonitrile	ND		ug/kg	5900	1700	20

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-01 D

Date Collected: 07/26/18 16:20

Client ID: RSB16_6-8

Date Received: 07/26/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	29000		ug/kg	1500	250	20
1,2,3-Trichlorobenzene	ND		ug/kg	3000	480	20
1,2,4-Trichlorobenzene	ND		ug/kg	3000	400	20
1,3,5-Trimethylbenzene	68000		ug/kg	3000	290	20
1,2,4-Trimethylbenzene	200000		ug/kg	3000	500	20
1,4-Dioxane	ND		ug/kg	150000	52000	20
p-Diethylbenzene	69000		ug/kg	3000	260	20
p-Ethyltoluene	100000		ug/kg	3000	570	20
1,2,4,5-Tetramethylbenzene	22000		ug/kg	3000	280	20
Ethyl ether	ND		ug/kg	3000	510	20
trans-1,4-Dichloro-2-butene	ND		ug/kg	7400	2100	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	131	Q	70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	86		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-02
 Client ID: RSBTB04_072618
 Sample Location: NY, NY

Date Collected: 07/26/18 00:00
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/31/18 09:58
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-02
 Client ID: RSBTB04_072618
 Sample Location: NY, NY

Date Collected: 07/26/18 00:00
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	2.4	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-02
 Client ID: RSBTB04_072618
 Sample Location: NY, NY

Date Collected: 07/26/18 00:00
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	102		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/31/18 08:18
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1141334-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/31/18 08:18
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1141334-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/31/18 08:18
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1141334-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 09:58
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1142278-5					
Methylene chloride	110	J	ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	32	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 09:58
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1142278-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/02/18 09:58
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1142278-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	5000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1141334-3 WG1141334-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	95		97		70-130	2		20
Chloroform	95		97		70-130	2		20
Carbon tetrachloride	87		86		63-132	1		20
1,2-Dichloropropane	96		95		70-130	1		20
Dibromochloromethane	84		85		63-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	87		86		70-130	1		20
Chlorobenzene	98		98		75-130	0		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	95		95		70-130	0		20
1,1,1-Trichloroethane	90		90		67-130	0		20
Bromodichloromethane	93		94		67-130	1		20
trans-1,3-Dichloropropene	93		95		70-130	2		20
cis-1,3-Dichloropropene	92		93		70-130	1		20
1,1-Dichloropropene	86		87		70-130	1		20
Bromoform	86		88		54-136	2		20
1,1,2,2-Tetrachloroethane	95		97		67-130	2		20
Benzene	91		91		70-130	0		20
Toluene	96		95		70-130	1		20
Ethylbenzene	95		96		70-130	1		20
Chloromethane	94		95		64-130	1		20
Bromomethane	83		84		39-139	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1141334-3 WG1141334-4								
Vinyl chloride	100		98		55-140	2		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	88		88		61-145	0		20
trans-1,2-Dichloroethene	88		88		70-130	0		20
Trichloroethene	86		88		70-130	2		20
1,2-Dichlorobenzene	96		98		70-130	2		20
1,3-Dichlorobenzene	97		99		70-130	2		20
1,4-Dichlorobenzene	98		100		70-130	2		20
Methyl tert butyl ether	82		82		63-130	0		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	91		91		70-130	0		20
Dibromomethane	90		90		70-130	0		20
1,2,3-Trichloropropane	92		96		64-130	4		20
Acrylonitrile	95		96		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	93		92		36-147	1		20
Acetone	98		95		58-148	3		20
Carbon disulfide	93		92		51-130	1		20
2-Butanone	94		91		63-138	3		20
Vinyl acetate	94		92		70-130	2		20
4-Methyl-2-pentanone	80		80		59-130	0		20
2-Hexanone	77		77		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1141334-3 WG1141334-4								
Bromochloromethane	95		94		70-130	1		20
2,2-Dichloropropane	96		96		63-133	0		20
1,2-Dibromoethane	88		87		70-130	1		20
1,3-Dichloropropane	96		96		70-130	0		20
1,1,1,2-Tetrachloroethane	97		97		64-130	0		20
Bromobenzene	94		97		70-130	3		20
n-Butylbenzene	94		97		53-136	3		20
sec-Butylbenzene	89		91		70-130	2		20
tert-Butylbenzene	88		91		70-130	3		20
o-Chlorotoluene	99		100		70-130	1		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	71		74		41-144	4		20
Hexachlorobutadiene	82		87		63-130	6		20
Isopropylbenzene	90		93		70-130	3		20
p-Isopropyltoluene	90		91		70-130	1		20
Naphthalene	66	Q	72		70-130	9		20
n-Propylbenzene	95		97		69-130	2		20
1,2,3-Trichlorobenzene	77		82		70-130	6		20
1,2,4-Trichlorobenzene	82		86		70-130	5		20
1,3,5-Trimethylbenzene	96		98		64-130	2		20
1,2,4-Trimethylbenzene	97		99		70-130	2		20
1,4-Dioxane	80		96		56-162	18		20
p-Diethylbenzene	90		90		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1141334-3 WG1141334-4								
p-Ethyltoluene	95		96		70-130	1		20
1,2,4,5-Tetramethylbenzene	89		92		70-130	3		20
Ethyl ether	97		96		59-134	1		20
trans-1,4-Dichloro-2-butene	88		86		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		105		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	104		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1142278-3 WG1142278-4								
Methylene chloride	90		87		70-130	3		30
1,1-Dichloroethane	93		91		70-130	2		30
Chloroform	92		91		70-130	1		30
Carbon tetrachloride	96		95		70-130	1		30
1,2-Dichloropropane	93		91		70-130	2		30
Dibromochloromethane	96		96		70-130	0		30
1,1,2-Trichloroethane	98		96		70-130	2		30
Tetrachloroethene	92		88		70-130	4		30
Chlorobenzene	92		90		70-130	2		30
Trichlorofluoromethane	79		80		70-139	1		30
1,2-Dichloroethane	103		100		70-130	3		30
1,1,1-Trichloroethane	97		94		70-130	3		30
Bromodichloromethane	93		95		70-130	2		30
trans-1,3-Dichloropropene	99		97		70-130	2		30
cis-1,3-Dichloropropene	93		94		70-130	1		30
1,1-Dichloropropene	96		94		70-130	2		30
Bromoform	97		96		70-130	1		30
1,1,2,2-Tetrachloroethane	101		101		70-130	0		30
Benzene	88		86		70-130	2		30
Toluene	91		88		70-130	3		30
Ethylbenzene	93		90		70-130	3		30
Chloromethane	102		98		52-130	4		30
Bromomethane	71		68		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1142278-3 WG1142278-4								
Vinyl chloride	83		82		67-130	1		30
Chloroethane	76		75		50-151	1		30
1,1-Dichloroethene	92		88		65-135	4		30
trans-1,2-Dichloroethene	89		86		70-130	3		30
Trichloroethene	93		91		70-130	2		30
1,2-Dichlorobenzene	93		92		70-130	1		30
1,3-Dichlorobenzene	92		91		70-130	1		30
1,4-Dichlorobenzene	92		90		70-130	2		30
Methyl tert butyl ether	95		94		66-130	1		30
p/m-Xylene	92		90		70-130	2		30
o-Xylene	92		89		70-130	3		30
cis-1,2-Dichloroethene	88		88		70-130	0		30
Dibromomethane	94		94		70-130	0		30
Styrene	94		92		70-130	2		30
Dichlorodifluoromethane	94		91		30-146	3		30
Acetone	127		122		54-140	4		30
Carbon disulfide	85		83		59-130	2		30
2-Butanone	117		115		70-130	2		30
Vinyl acetate	97		98		70-130	1		30
4-Methyl-2-pentanone	105		105		70-130	0		30
1,2,3-Trichloropropane	101		100		68-130	1		30
2-Hexanone	111		110		70-130	1		30
Bromochloromethane	95		93		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1142278-3 WG1142278-4								
2,2-Dichloropropane	95		92		70-130	3		30
1,2-Dibromoethane	98		96		70-130	2		30
1,3-Dichloropropane	96		95		69-130	1		30
1,1,1,2-Tetrachloroethane	95		94		70-130	1		30
Bromobenzene	91		89		70-130	2		30
n-Butylbenzene	98		95		70-130	3		30
sec-Butylbenzene	97		94		70-130	3		30
tert-Butylbenzene	94		92		70-130	2		30
o-Chlorotoluene	96		92		70-130	4		30
p-Chlorotoluene	96		93		70-130	3		30
1,2-Dibromo-3-chloropropane	101		101		68-130	0		30
Hexachlorobutadiene	93		91		67-130	2		30
Isopropylbenzene	94		91		70-130	3		30
p-Isopropyltoluene	97		93		70-130	4		30
Naphthalene	100		98		70-130	2		30
Acrylonitrile	104		106		70-130	2		30
n-Propylbenzene	95		92		70-130	3		30
1,2,3-Trichlorobenzene	96		95		70-130	1		30
1,2,4-Trichlorobenzene	94		91		70-130	3		30
1,3,5-Trimethylbenzene	95		93		70-130	2		30
1,2,4-Trimethylbenzene	96		92		70-130	4		30
1,4-Dioxane	106		108		65-136	2		30
p-Diethylbenzene	92		89		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1142278-3 WG1142278-4								
p-Ethyltoluene	92		90		70-130	2		30
1,2,4,5-Tetramethylbenzene	93		91		70-130	2		30
Ethyl ether	87		87		67-130	0		30
trans-1,4-Dichloro-2-butene	109		108		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		111		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	111		109		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-01
 Client ID: RSB16_6-8
 Sample Location: NY, NY

Date Collected: 07/26/18 16:20
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/01/18 14:53
 Analyst: RC
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 07/31/18 11:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	890		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-01

Date Collected: 07/26/18 16:20

Client ID: RSB16_6-8

Date Received: 07/26/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	1200		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-01
 Client ID: RSB16_6-8
 Sample Location: NY, NY

Date Collected: 07/26/18 16:20
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	67		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/01/18 01:15
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 07/30/18 20:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1141063-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/01/18 01:15
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 07/30/18 20:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1141063-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/01/18 01:15
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 07/30/18 20:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1141063-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1141063-2 WG1141063-3								
Acenaphthene	67		75		31-137	11		50
1,2,4-Trichlorobenzene	65		71		38-107	9		50
Hexachlorobenzene	66		74		40-140	11		50
Bis(2-chloroethyl)ether	65		70		40-140	7		50
2-Chloronaphthalene	69		74		40-140	7		50
1,2-Dichlorobenzene	65		70		40-140	7		50
1,3-Dichlorobenzene	62		68		40-140	9		50
1,4-Dichlorobenzene	64		68		28-104	6		50
3,3'-Dichlorobenzidine	60		68		40-140	13		50
2,4-Dinitrotoluene	76		86		40-132	12		50
2,6-Dinitrotoluene	74		81		40-140	9		50
Fluoranthene	71		80		40-140	12		50
4-Chlorophenyl phenyl ether	67		74		40-140	10		50
4-Bromophenyl phenyl ether	68		76		40-140	11		50
Bis(2-chloroisopropyl)ether	66		73		40-140	10		50
Bis(2-chloroethoxy)methane	68		74		40-117	8		50
Hexachlorobutadiene	64		69		40-140	8		50
Hexachlorocyclopentadiene	44		50		40-140	13		50
Hexachloroethane	62		67		40-140	8		50
Isophorone	66		73		40-140	10		50
Naphthalene	65		71		40-140	9		50
Nitrobenzene	66		73		40-140	10		50
NDPA/DPA	70		76		36-157	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1141063-2 WG1141063-3								
n-Nitrosodi-n-propylamine	66		71		32-121	7		50
Bis(2-ethylhexyl)phthalate	70		78		40-140	11		50
Butyl benzyl phthalate	70		81		40-140	15		50
Di-n-butylphthalate	70		79		40-140	12		50
Di-n-octylphthalate	73		80		40-140	9		50
Diethyl phthalate	66		73		40-140	10		50
Dimethyl phthalate	69		75		40-140	8		50
Benzo(a)anthracene	68		74		40-140	8		50
Benzo(a)pyrene	73		81		40-140	10		50
Benzo(b)fluoranthene	68		76		40-140	11		50
Benzo(k)fluoranthene	74		80		40-140	8		50
Chrysene	69		76		40-140	10		50
Acenaphthylene	69		76		40-140	10		50
Anthracene	70		78		40-140	11		50
Benzo(ghi)perylene	70		76		40-140	8		50
Fluorene	68		75		40-140	10		50
Phenanthrene	69		77		40-140	11		50
Dibenzo(a,h)anthracene	70		76		40-140	8		50
Indeno(1,2,3-cd)pyrene	69		75		40-140	8		50
Pyrene	70		78		35-142	11		50
Biphenyl	71		78		54-104	9		50
4-Chloroaniline	69		72		40-140	4		50
2-Nitroaniline	77		85		47-134	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1141063-2 WG1141063-3								
3-Nitroaniline	64		72		26-129	12		50
4-Nitroaniline	68		76		41-125	11		50
Dibenzofuran	68		75		40-140	10		50
2-Methylnaphthalene	69		74		40-140	7		50
1,2,4,5-Tetrachlorobenzene	69		77		40-117	11		50
Acetophenone	68		74		14-144	8		50
2,4,6-Trichlorophenol	73		79		30-130	8		50
p-Chloro-m-cresol	73		80		26-103	9		50
2-Chlorophenol	70		75		25-102	7		50
2,4-Dichlorophenol	73		81		30-130	10		50
2,4-Dimethylphenol	68		77		30-130	12		50
2-Nitrophenol	71		79		30-130	11		50
4-Nitrophenol	81		84		11-114	4		50
2,4-Dinitrophenol	37		42		4-130	13		50
4,6-Dinitro-o-cresol	63		71		10-130	12		50
Pentachlorophenol	60		70		17-109	15		50
Phenol	64		72		26-90	12		50
2-Methylphenol	70		78		30-130.	11		50
3-Methylphenol/4-Methylphenol	70		78		30-130	11		50
2,4,5-Trichlorophenol	75		84		30-130	11		50
Benzoic Acid	18		18		10-110	0		50
Benzyl Alcohol	68		75		40-140	10		50
Carbazole	71		80		54-128	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1141063-2 WG1141063-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		78		25-120
Phenol-d6	76		82		10-120
Nitrobenzene-d5	70		77		23-120
2-Fluorobiphenyl	71		77		30-120
2,4,6-Tribromophenol	76		84		10-136
4-Terphenyl-d14	71		78		18-120

PETROLEUM HYDROCARBONS

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-01
 Client ID: RSB16_6-8
 Sample Location: NY, NY

Date Collected: 07/26/18 16:20
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 08/01/18 13:50
 Analyst: SR
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 07/31/18 10:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	194000		ug/kg	38300	4410	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84		40-140

Project Name: 4650 BROADWAY**Lab Number:** L1828984**Project Number:** 170505502**Report Date:** 08/02/18**SAMPLE RESULTS**

Lab ID: L1828984-01 D

Date Collected: 07/26/18 16:20

Client ID: RSB16_6-8

Date Received: 07/26/18

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method:

Analytical Method: 1,8015D(M)

Analytical Date: 07/31/18 21:40

Analyst: MZ

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	6500000		ug/kg	320000	6200	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	229	Q	70-130
4-Bromofluorobenzene	77		70-130

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8015D(M)
 Analytical Date: 08/01/18 12:14
 Analyst: SR

Extraction Method: EPA 3546
 Extraction Date: 07/31/18 10:27

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1141258-1					
TPH	3870	J	ug/kg	32200	3710

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	85		40-140

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 07/31/18 12:06
Analyst: MZ

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01 Batch: WG1142170-4					
Gasoline Range Organics	1400	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	85		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1141258-2								
TPH	102		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	92				40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01 Batch: WG1142170-2 WG1142170-3								
Gasoline Range Organics	85		84		80-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	99		97		70-130
4-Bromofluorobenzene	89		87		70-130

Lab Duplicate Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1141258-3 QC Sample: L1828984-01 Client ID: RSB16_6-8						

TPH	194000	181000	ug/kg	7		40
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Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84		87		40-140

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

SAMPLE RESULTS

Lab ID: L1828984-01
Client ID: RSB16_6-8
Sample Location: NY, NY

Date Collected: 07/26/18 16:20
Date Received: 07/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	970		mg/kg	100	100.	1	-	08/02/18 14:22	1,9060A	SP
Total Organic Carbon (Rep2)	900		mg/kg	100	100.	1	-	08/02/18 14:22	1,9060A	SP
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Coarse Gravel	ND		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Fine Gravel	0.600		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Coarse Sand	0.700		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Medium Sand	10.5		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Fine Sand	60.5		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Total Fines	27.7		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	07/31/18 10:34	121,2540G	RI



Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab for sample(s): 01 Batch: WG1142385-1										
Total Organic Carbon (Rep1)	ND		mg/kg	100	100.	1	-	08/02/18 11:15	1,9060A	SP
Total Organic Carbon (Rep2)	ND		mg/kg	100	100.	1	-	08/02/18 11:15	1,9060A	SP

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01 Batch: WG1142385-2								
Total Organic Carbon (Rep1)	78		-		75-125	-		25
Total Organic Carbon (Rep2)	101		-		75-125	-		25

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828984

Project Number: 170505502

Report Date: 08/02/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1142385-4 QC Sample: L1828984-01 Client ID: RSB16_6-8												
Total Organic Carbon (Rep1)	970.	12100	12800	98	-	-	-	-	75-125	-	-	25
Total Organic Carbon (Rep2)	900.	7580	8600	102	-	-	-	-	75-125	-	-	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828984

Report Date: 08/02/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1141260-1 QC Sample: L1828897-01 Client ID: DUP Sample						
Solids, Total	88.2	87.7	%	1		20
Grain Size Analysis - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1142379-1 QC Sample: L1828984-01 Client ID: RSB16_6-8						
Cobbles	ND	ND	%	NC		20
% Coarse Gravel	ND	ND	%	NC		20
% Fine Gravel	0.600	1.30	%	74	Q	20
% Coarse Sand	0.700	0.300	%	80	Q	20
% Medium Sand	10.5	11.3	%	7		20
% Fine Sand	60.5	66.4	%	9		20
% Total Fines	27.7	20.7	%	29	Q	20
Total Organic Carbon - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1142385-3 QC Sample: L1828984-01 Client ID: RSB16_6-8						
Total Organic Carbon (Rep1)	970.	1120	mg/kg	14		25
Total Organic Carbon (Rep2)	900.	1330	mg/kg	39	Q	25

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:08021820:29
Lab Number: L1828984
Report Date: 08/02/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1828984-01A	Vial MeOH preserved	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1828984-01B	Vial water preserved	A	NA		4.9	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1828984-01C	Vial water preserved	A	NA		4.9	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1828984-01D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1828984-01E	Vial Large Septa unpreserved (4oz)	A	NA		4.9	Y	Absent		TPH-GRO(14)
L1828984-01E9	Vial MeOH preserved split	A	NA		4.9	Y	Absent		TPH-GRO(14)
L1828984-01F	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TPH-DRO-D(14)
L1828984-01G	Plastic 8oz unpreserved for Grain Size	A	NA		4.9	Y	Absent		A2-HYDRO-TFINE(),A2-HYDRO-CGRAVEL(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-CSAND(),A2-HYDRO-COBBLER(),A2-HYDRO-FGRAVEL()
L1828984-01H	Glass 60ml unpreserved split	A	NA		4.9	Y	Absent		A2-TOC9060-2REPS-PPM(28)
L1828984-02A	Vial HCl preserved	A	NA		4.9	Y	Absent		NYTCL-8260(14)
L1828984-02B	Vial HCl preserved	A	NA		4.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828984
Report Date: 08/02/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.

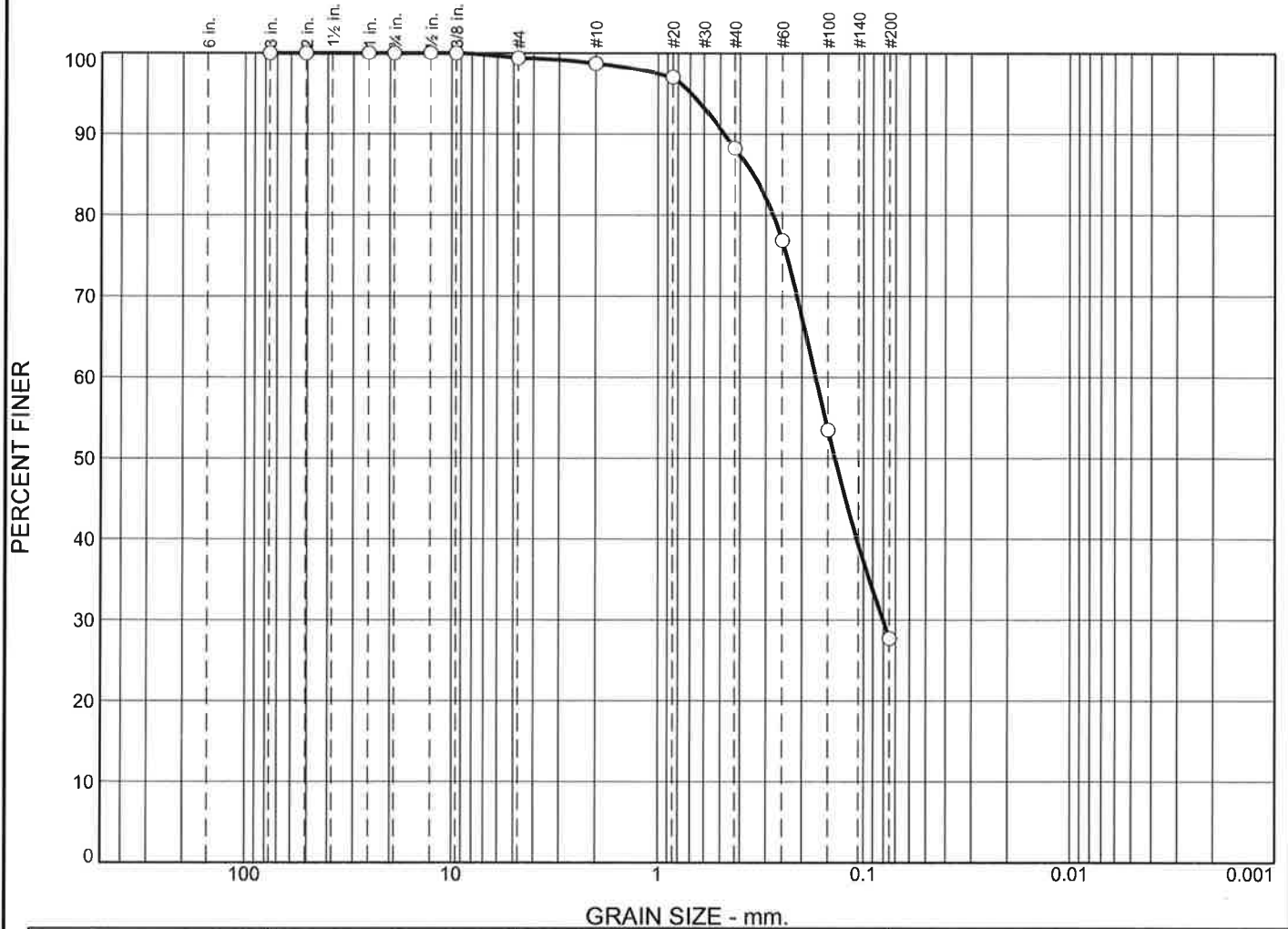


ASTM D6913/D7928
GRAIN SIZE ANALYSIS

SAMPLE ID	7657-01	7657-01d	7657-02	8657-02	8657-02d	7813-01	7813-01d	7813-02	7813-03
Dry Wt	15.69	12.7	12.02	58.93	54.45	9.27	9.97	10.1	27.8
SIEVE	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.
3"	0	0							
#1/2	0	0							
#3/4	0	0							
#4	2.58	2.89	4.54	0	0	1.78	1.39	0.96	5.29
#10	2.48	2	1.49	1.06	1.09	1.39	2.01	1.56	4.72
#20	1.81	1.31	1.17	3.11	1.92	1.4	1.64	1.46	2.71
#40	1.27	0.91	0.85	2.7	1.88	0.83	1.05	0.66	1.44
#60	0.9	0.66	0.53	3.96	3.61	0.58	0.69	0.44	1
#100	0.86	0.6	0.45	6.99	7.15	0.6	0.68	0.58	0.97
#200	0.66	0.45	0.31	6.68	6.39	0.37	0.37	1.1	0.84

SAMPLE ID	7813-04	7813-06	8984-01	8984-01d	9309-04				
Dry Wt	19.83	23.91	84.12	87.23	116.23				
SIEVE	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.
3"									
#1/2									
#3/4									
#4	2.25	4.73	0.53	1.13	0				
#10	3.68	5.54	0.54	0.25	0.04				
#20	2.06	3.56	1.41	1.59	0.11				
#40	0.99	1.83	7.42	8.31	0.52				
#60	0.73	0.92	9.62	11.12	7.25				
#100	0.84	0.58	19.67	25.16	50.64				
#200	0.83	0.38	21.61	21.63	39.49				

Particle Size Distribution Report



	% +3"		% Gravel		% Sand			% Fines			
			Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
<input type="radio"/>	0.0		0.0	0.6	0.7	10.5	60.5	27.7			
<input checked="" type="checkbox"/>	Colloids	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
<input type="radio"/>				0.3461	0.1721	0.1389	0.0804				

Material Description	USCS	AASHTO
<input type="radio"/>		

<p>Project No. Client:</p> <p>Project:</p> <p><input type="radio"/> Source of Sample: RSB16_6-8 Sample Number: L1828984-01</p> <p>Date: <input type="radio"/></p> <p style="text-align: center;">Alpha Analytical</p> <p style="text-align: center;">Mansfield, MA</p>	<p>Remarks:</p> <p style="text-align: right;">Figure</p>
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GRAIN SIZE DISTRIBUTION TEST DATA

8/2/2018

Location: RSB16_6-8

Sample Number: L1828984-01

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 84.12
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
84.12	0.00	3	0.00	0.00	100.0
		2	0.00	0.00	100.0
		1	0.00	0.00	100.0
		0.75	0.00	0.00	100.0
		.5	0.00	0.00	100.0
		.375	0.00	0.00	100.0
		#4	0.53	0.00	99.4
		#10	0.54	0.00	98.7
		#20	1.41	0.00	97.1
		#40	7.42	0.00	88.2
		#60	9.62	0.00	76.8
		#100	19.67	0.00	53.4
		#200	21.61	0.00	27.7

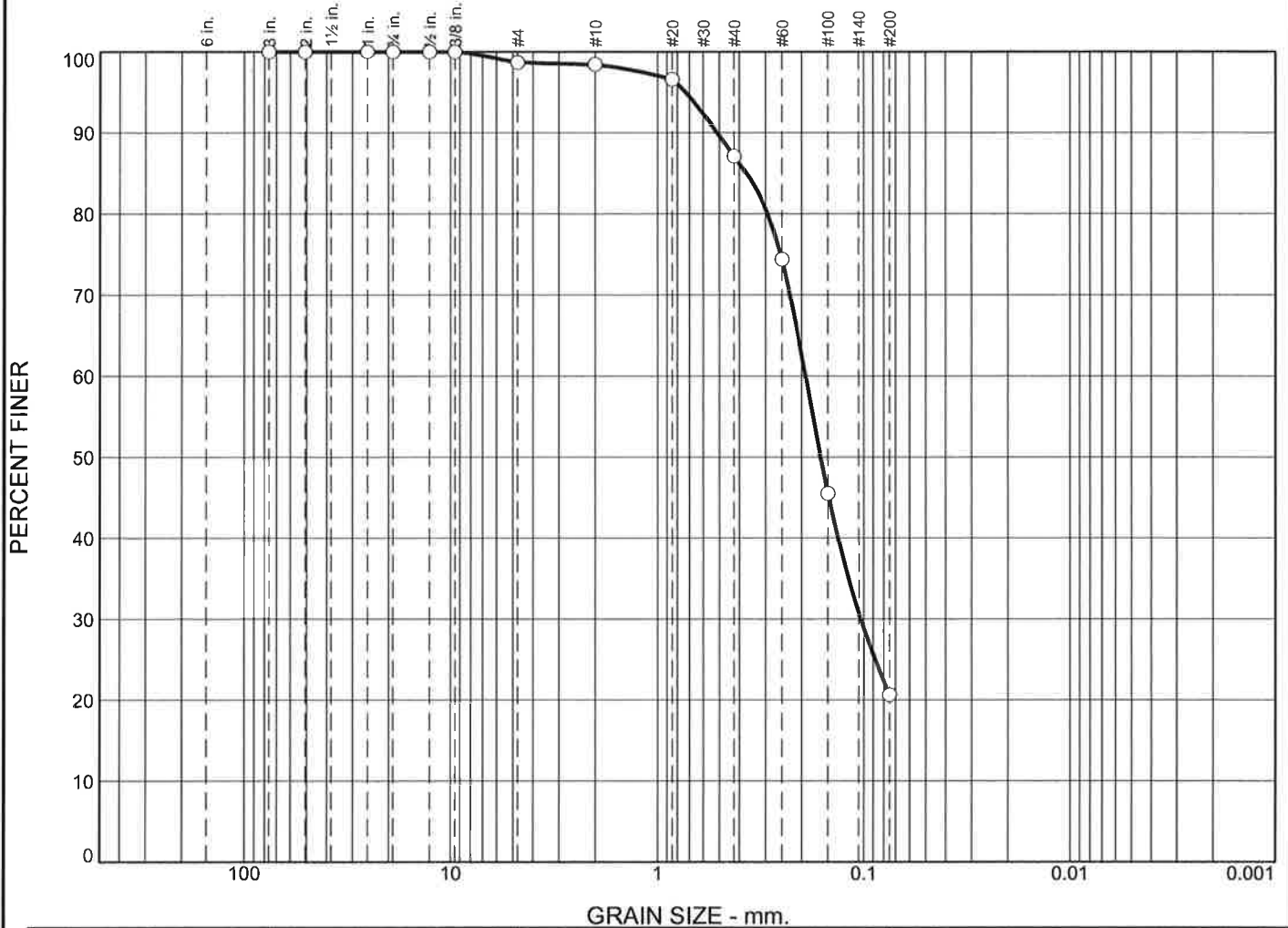
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.6	0.6	0.7	10.5	60.5	71.7			27.7

D ₅	D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₄₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
				0.0804	0.1078	0.1389	0.1721	0.2766	0.3461	0.4787	0.6905

Fineness Modulus
0.75

Particle Size Distribution Report



%	+3"		Gravel		Sand			Fines	
	Coarse	Fine	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
<input type="radio"/>	0.0		0.0	1.3	0.3	11.3	66.4	20.7	

	Colloids	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
<input checked="" type="checkbox"/>				0.3714	0.1920	0.1626	0.1035				

Material Description	USCS	AASHTO
<input type="radio"/>		

Project No. Project: <input type="radio"/> Source of Sample: RSB16_6-8	Client: Sample Number: WG1142379-1	Remarks: <div style="text-align: right;">Figure</div>
Date: <input type="radio"/>		
Alpha Analytical Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

8/2/2018

Location: RSB16_6-8

Sample Number: WG1142379-1

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 87.23
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
87.23	0.00	3	0.00	0.00	100.0
		2	0.00	0.00	100.0
		1	0.00	0.00	100.0
		0.75	0.00	0.00	100.0
		.5	0.00	0.00	100.0
		.375	0.00	0.00	100.0
		#4	1.13	0.00	98.7
		#10	0.25	0.00	98.4
		#20	1.59	0.00	96.6
		#40	8.31	0.00	87.1
		#60	11.12	0.00	74.3
		#100	25.16	0.00	45.5
		#200	21.63	0.00	20.7

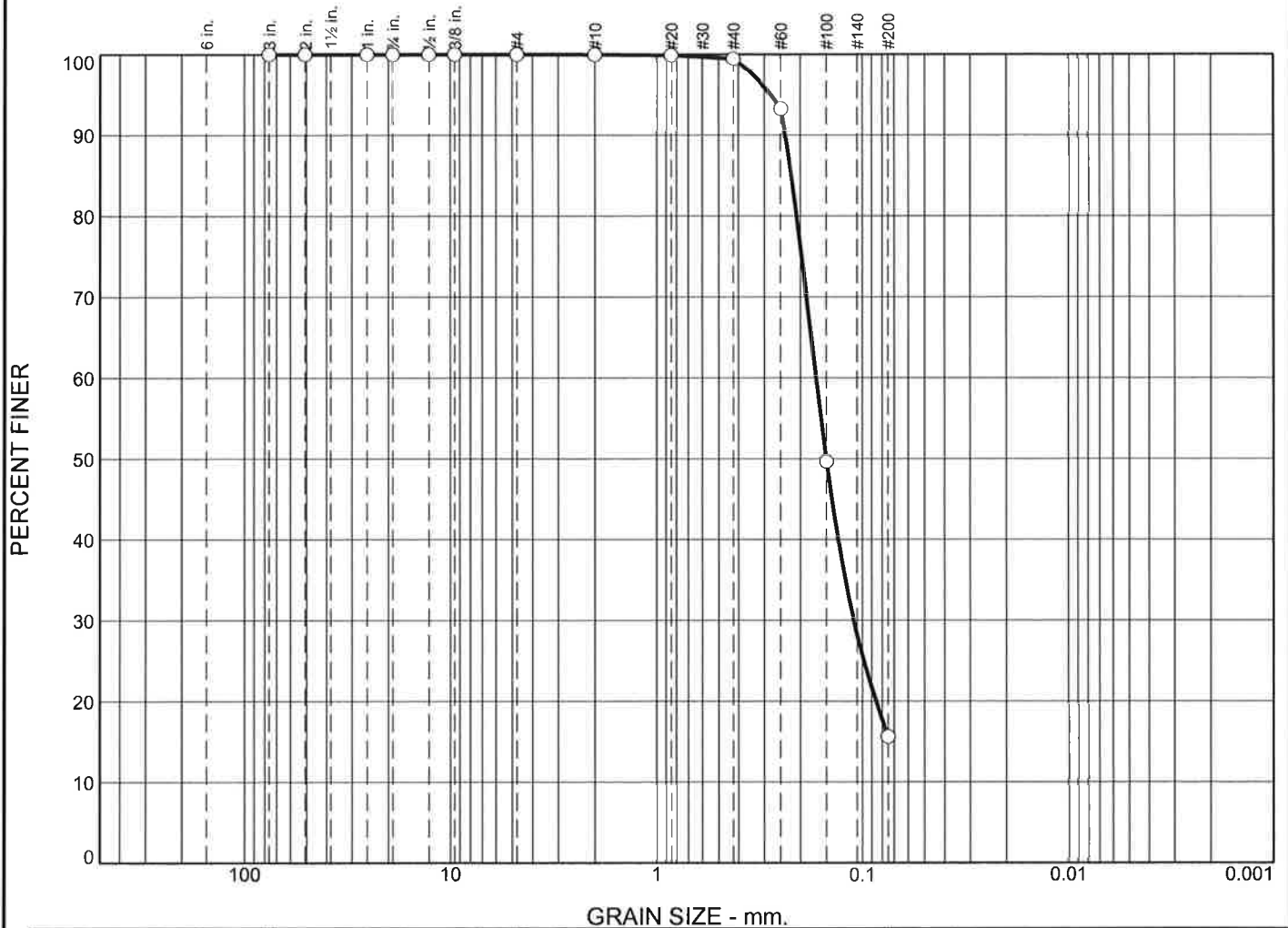
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.3	1.3	0.3	11.3	66.4	78.0			20.7

D ₅	D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₄₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
				0.1035	0.1342	0.1626	0.1920	0.2935	0.3714	0.5139	0.7303

Fineness Modulus
0.87

Particle Size Distribution Report



GRAIN SIZE DISTRIBUTION TEST DATA

8/2/2018

Location: RSB20_7-9

Sample Number: L1829309-04

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 116.23
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
116.23	0.00	3	0.00	0.00	100.0
		2	0.00	0.00	100.0
		1	0.00	0.00	100.0
		0.75	0.00	0.00	100.0
		.5	0.00	0.00	100.0
		.375	0.00	0.00	100.0
		#4	0.00	0.00	100.0
		#10	0.04	0.00	100.0
		#20	0.11	0.00	99.9
		#40	0.52	0.00	99.4
		#60	7.25	0.00	93.2
		#100	50.64	0.00	49.6
		#200	39.49	0.00	15.6

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.6	83.8	84.4			15.6

D ₅	D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₄₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
			0.0856	0.1101	0.1316	0.1507	0.1685	0.2087	0.2215	0.2372	0.2810

Fineness Modulus
0.55

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

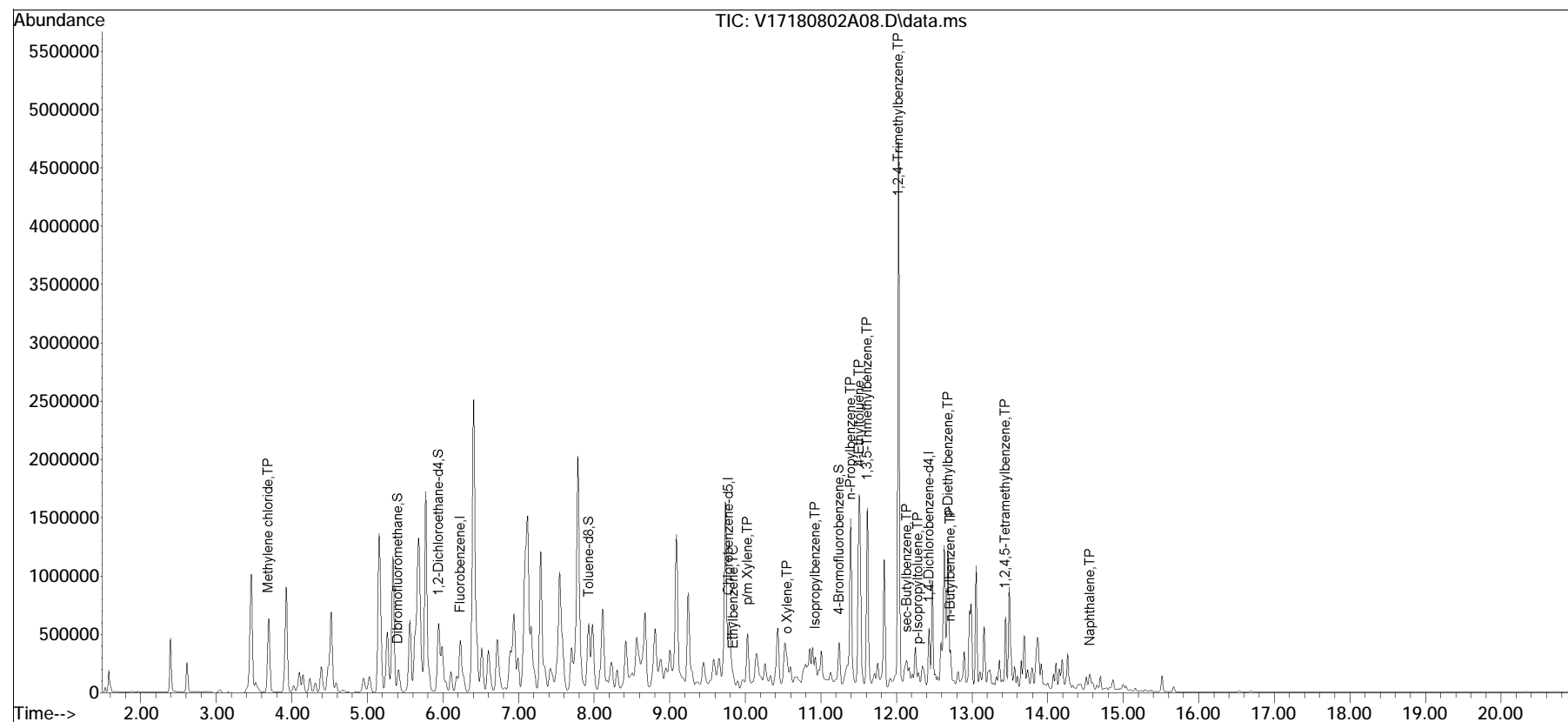
For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA117\2018\180802A\
Data File : V17180802A08.D
Acq On : 02 Aug 2018 11:20 am
Operator : VOA117:MV
Sample : 11828984-01D,31H,4.69,5,0.005,,a
Misc : WG1142278,ICAL14806
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 12:02:50 2018
Quant Method : I:\VOLATILES\VOA117\2018\180802A\V117_180619P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 20 13:40:13 2018
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox80802A\V17180802A01.D•



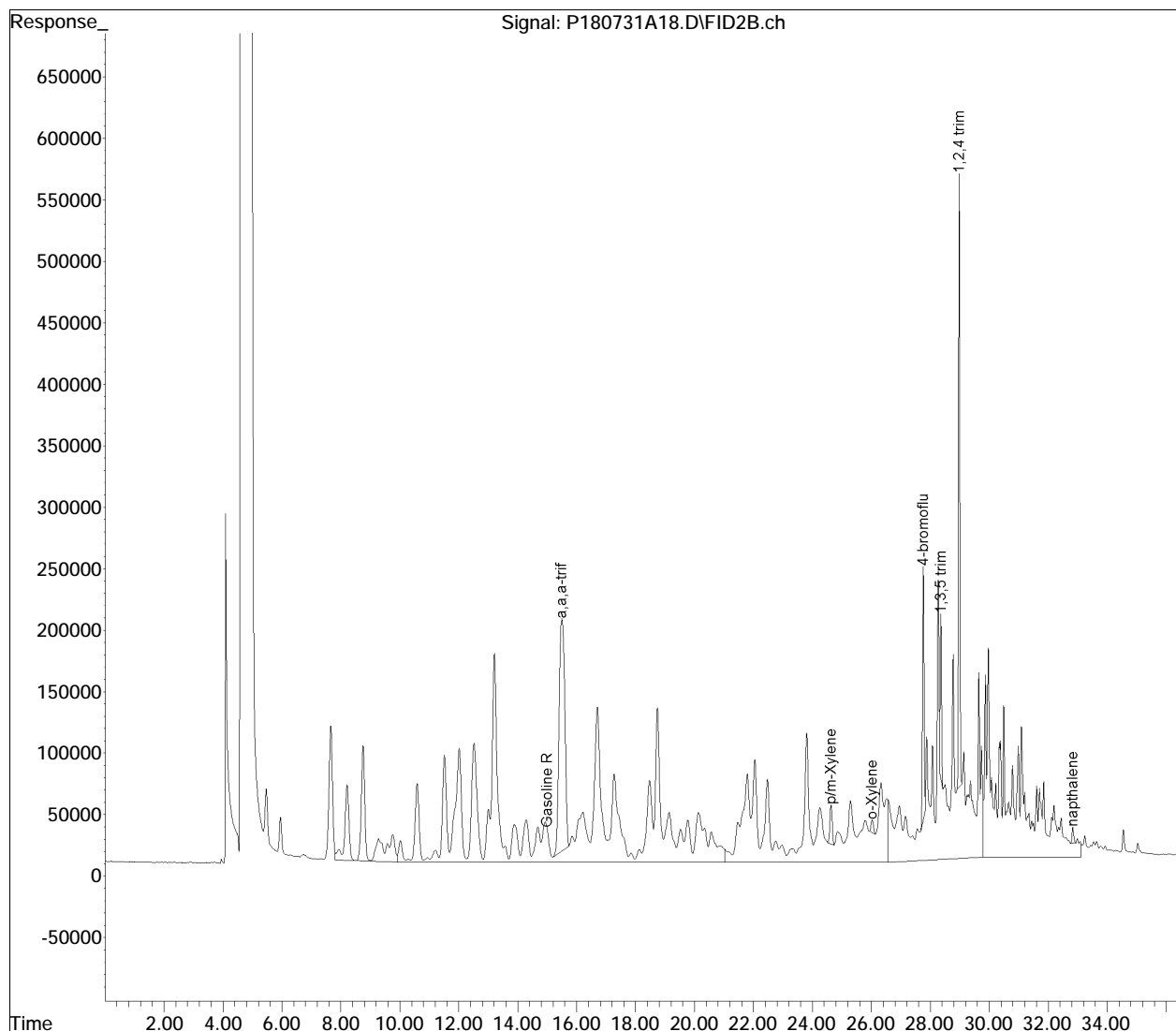
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES_GC\PVPH\2018\180731Atphgro\
Data File : P180731A18.D
Signal(s) : FID2B.ch
Acq On : 31 Jul 2018 9:40 pm
Operator : PVPH:MZ
Sample : 11828984-01D,41,5,4.69,0.001,,a
Misc : WG1142170,ICAL14832
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 02 07:46:27 2018
Quant Method : I:\VOLATILES_GC\PVPH\2018\180731Atphgro\tphgro180626N.m
Quant Title : TPH_GRO
QLast Update : Wed Jun 27 08:10:58 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed





ANALYTICAL REPORT

Lab Number:	L1828986
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	08/06/18

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), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1828986-01	RSB07_N1_7-8	SOIL	4650 BROADWAY, NY, NY	07/26/18 12:24	07/26/18
L1828986-02	RSB07_N2_7-8	SOIL	4650 BROADWAY, NY, NY	07/26/18 12:42	07/26/18
L1828986-03	RSB07_SW1_7-8	SOIL	4650 BROADWAY, NY, NY	07/26/18 11:33	07/26/18
L1828986-04	RSB07_SW2_7-8	SOIL	4650 BROADWAY, NY, NY	07/26/18 12:00	07/26/18
L1828986-05	RSB07_SE1_7-8	SOIL	4650 BROADWAY, NY, NY	07/26/18 10:35	07/26/18
L1828986-06	RSB07_SE2_7-8	SOIL	4650 BROADWAY, NY, NY	07/26/18 11:03	07/26/18
L1828986-07	RSB07_R_3-5	SOIL	4650 BROADWAY, NY, NY	07/26/18 10:01	07/26/18
L1828986-08	RSB07_R_5-7	SOIL	4650 BROADWAY, NY, NY	07/26/18 10:02	07/26/18
L1828986-09	RSB07_R_7-8	SOIL	4650 BROADWAY, NY, NY	07/26/18 10:03	07/26/18
L1828986-10	RSB07_R_10-12	SOIL	4650 BROADWAY, NY, NY	07/26/18 10:05	07/26/18
L1828986-11	RSB07_R_8-10	SOIL	4650 BROADWAY, NY, NY	07/26/18 10:04	07/26/18
L1828986-12	RSBFB04_072618	WATER	4650 BROADWAY, NY, NY	07/26/18 17:23	07/26/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

Case Narrative (continued)

Report Submission

August 06, 2018: This final report includes the results of all requested analyses.

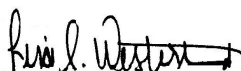
August 02, 2018: This preliminary report includes the results of the Semivolatile Organics by SIM analysis performed on L1828986-12.

July 30, 2018: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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: 08/06/18

ORGANICS

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-01
 Client ID: RSB07_N1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 12:24
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 03:55
 Analyst: EK
 Percent Solids: 62%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	210	27.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	30.	1
Hexachlorobenzene	ND		ug/kg	160	29.	1
Bis(2-chloroethyl)ether	ND		ug/kg	240	35.	1
2-Chloronaphthalene	ND		ug/kg	260	26.	1
1,2-Dichlorobenzene	ND		ug/kg	260	47.	1
1,3-Dichlorobenzene	ND		ug/kg	260	45.	1
1,4-Dichlorobenzene	ND		ug/kg	260	46.	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	70.	1
2,4-Dinitrotoluene	ND		ug/kg	260	52.	1
2,6-Dinitrotoluene	ND		ug/kg	260	45.	1
Fluoranthene	ND		ug/kg	160	30.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	260	28.	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	310	45.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	26.	1
Hexachlorobutadiene	ND		ug/kg	260	38.	1
Hexachlorocyclopentadiene	ND		ug/kg	750	240	1
Hexachloroethane	ND		ug/kg	210	42.	1
Isophorone	ND		ug/kg	240	34.	1
Naphthalene	ND		ug/kg	260	32.	1
Nitrobenzene	ND		ug/kg	240	39.	1
NDPA/DPA	ND		ug/kg	210	30.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	260	40.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	260	90.	1
Butyl benzyl phthalate	ND		ug/kg	260	66.	1
Di-n-butylphthalate	ND		ug/kg	260	50.	1
Di-n-octylphthalate	ND		ug/kg	260	89.	1

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-01
 Client ID: RSB07_N1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 12:24
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	260	24.	1
Dimethyl phthalate	ND		ug/kg	260	55.	1
Benzo(a)anthracene	ND		ug/kg	160	29.	1
Benzo(a)pyrene	ND		ug/kg	210	64.	1
Benzo(b)fluoranthene	ND		ug/kg	160	44.	1
Benzo(k)fluoranthene	ND		ug/kg	160	42.	1
Chrysene	ND		ug/kg	160	27.	1
Acenaphthylene	ND		ug/kg	210	40.	1
Anthracene	ND		ug/kg	160	51.	1
Benzo(ghi)perylene	ND		ug/kg	210	31.	1
Fluorene	ND		ug/kg	260	25.	1
Phenanthrene	ND		ug/kg	160	32.	1
Dibenzo(a,h)anthracene	ND		ug/kg	160	30.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	210	36.	1
Pyrene	ND		ug/kg	160	26.	1
Biphenyl	ND		ug/kg	600	61.	1
4-Chloroaniline	ND		ug/kg	260	48.	1
2-Nitroaniline	ND		ug/kg	260	50.	1
3-Nitroaniline	ND		ug/kg	260	49.	1
4-Nitroaniline	ND		ug/kg	260	110	1
Dibenzofuran	ND		ug/kg	260	25.	1
2-Methylnaphthalene	ND		ug/kg	310	32.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	260	27.	1
Acetophenone	ND		ug/kg	260	32.	1
2,4,6-Trichlorophenol	ND		ug/kg	160	50.	1
p-Chloro-m-cresol	ND		ug/kg	260	39.	1
2-Chlorophenol	ND		ug/kg	260	31.	1
2,4-Dichlorophenol	ND		ug/kg	240	42.	1
2,4-Dimethylphenol	ND		ug/kg	260	86.	1
2-Nitrophenol	ND		ug/kg	560	98.	1
4-Nitrophenol	ND		ug/kg	370	110	1
2,4-Dinitrophenol	ND		ug/kg	1200	120	1
4,6-Dinitro-o-cresol	ND		ug/kg	680	120	1
Pentachlorophenol	ND		ug/kg	210	58.	1
Phenol	ND		ug/kg	260	40.	1
2-Methylphenol	ND		ug/kg	260	40.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	380	41.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-01
 Client ID: RSB07_N1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 12:24
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	260	50.	1
Benzoic Acid	ND		ug/kg	850	260	1
Benzyl Alcohol	ND		ug/kg	260	80.	1
Carbazole	ND		ug/kg	260	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	57		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-03
 Client ID: RSB07_SW1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 11:33
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 04:21
 Analyst: EK
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-03
 Client ID: RSB07_SW1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 11:33
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 4650 BROADWAY**Lab Number:** L1828986**Project Number:** 170505502**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1828986-03
 Client ID: RSB07_SW1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 11:33
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	91		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	72		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1828986**Project Number:** 170505502**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1828986-05
 Client ID: RSB07_SE1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:35
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 06:02
 Analyst: EK
 Percent Solids: 63%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	210	27.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	30.	1
Hexachlorobenzene	ND		ug/kg	150	29.	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	35.	1
2-Chloronaphthalene	ND		ug/kg	260	26.	1
1,2-Dichlorobenzene	ND		ug/kg	260	46.	1
1,3-Dichlorobenzene	ND		ug/kg	260	44.	1
1,4-Dichlorobenzene	ND		ug/kg	260	45.	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	69.	1
2,4-Dinitrotoluene	ND		ug/kg	260	52.	1
2,6-Dinitrotoluene	ND		ug/kg	260	44.	1
Fluoranthene	ND		ug/kg	150	30.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	260	28.	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	39.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	310	44.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	26.	1
Hexachlorobutadiene	ND		ug/kg	260	38.	1
Hexachlorocyclopentadiene	ND		ug/kg	740	230	1
Hexachloroethane	ND		ug/kg	210	42.	1
Isophorone	ND		ug/kg	230	33.	1
Naphthalene	ND		ug/kg	260	31.	1
Nitrobenzene	ND		ug/kg	230	38.	1
NDPA/DPA	ND		ug/kg	210	29.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	260	40.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	260	89.	1
Butyl benzyl phthalate	ND		ug/kg	260	65.	1
Di-n-butylphthalate	ND		ug/kg	260	49.	1
Di-n-octylphthalate	ND		ug/kg	260	88.	1

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-05
 Client ID: RSB07_SE1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:35
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	260	24.	1
Dimethyl phthalate	ND		ug/kg	260	54.	1
Benzo(a)anthracene	ND		ug/kg	150	29.	1
Benzo(a)pyrene	ND		ug/kg	210	63.	1
Benzo(b)fluoranthene	ND		ug/kg	150	43.	1
Benzo(k)fluoranthene	ND		ug/kg	150	41.	1
Chrysene	ND		ug/kg	150	27.	1
Acenaphthylene	ND		ug/kg	210	40.	1
Anthracene	ND		ug/kg	150	50.	1
Benzo(ghi)perylene	ND		ug/kg	210	30.	1
Fluorene	ND		ug/kg	260	25.	1
Phenanthrene	ND		ug/kg	150	31.	1
Dibenzo(a,h)anthracene	ND		ug/kg	150	30.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	210	36.	1
Pyrene	ND		ug/kg	150	26.	1
Biphenyl	ND		ug/kg	590	60.	1
4-Chloroaniline	ND		ug/kg	260	47.	1
2-Nitroaniline	ND		ug/kg	260	50.	1
3-Nitroaniline	ND		ug/kg	260	49.	1
4-Nitroaniline	ND		ug/kg	260	110	1
Dibenzofuran	ND		ug/kg	260	24.	1
2-Methylnaphthalene	ND		ug/kg	310	31.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	260	27.	1
Acetophenone	ND		ug/kg	260	32.	1
2,4,6-Trichlorophenol	ND		ug/kg	150	49.	1
p-Chloro-m-cresol	ND		ug/kg	260	38.	1
2-Chlorophenol	ND		ug/kg	260	30.	1
2,4-Dichlorophenol	ND		ug/kg	230	41.	1
2,4-Dimethylphenol	ND		ug/kg	260	85.	1
2-Nitrophenol	ND		ug/kg	560	97.	1
4-Nitrophenol	ND		ug/kg	360	100	1
2,4-Dinitrophenol	ND		ug/kg	1200	120	1
4,6-Dinitro-o-cresol	ND		ug/kg	670	120	1
Pentachlorophenol	ND		ug/kg	210	57.	1
Phenol	ND		ug/kg	260	39.	1
2-Methylphenol	ND		ug/kg	260	40.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	370	40.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-05
Client ID: RSB07_SE1_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:35
Date Received: 07/26/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	260	49.	1
Benzoic Acid	ND		ug/kg	840	260	1
Benzyl Alcohol	ND		ug/kg	260	79.	1
Carbazole	ND		ug/kg	260	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	49		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	38		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-08
 Client ID: RSB07_R_5-7
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:02
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 08:09
 Analyst: EK
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	32	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	300		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	54	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-08
 Client ID: RSB07_R_5-7
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:02
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	140		ug/kg	120	22.	1
Benzo(a)pyrene	150	J	ug/kg	160	49.	1
Benzo(b)fluoranthene	200		ug/kg	120	34.	1
Benzo(k)fluoranthene	57	J	ug/kg	120	32.	1
Chrysene	150		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	99	J	ug/kg	160	23.	1
Fluorene	40	J	ug/kg	200	19.	1
Phenanthrene	130		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	160	28.	1
Pyrene	270		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-08
 Client ID: RSB07_R_5-7
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:02
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	37	J	ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	61		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1828986**Project Number:** 170505502**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1828986-09
 Client ID: RSB07_R_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:03
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 04:46
 Analyst: EK
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-09
 Client ID: RSB07_R_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:03
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-09
Client ID: RSB07_R_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:03
Date Received: 07/26/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	73		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-11
 Client ID: RSB07_R_8-10
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:04
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 05:11
 Analyst: EK
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-11
 Client ID: RSB07_R_8-10
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:04
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-11
 Client ID: RSB07_R_8-10
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:04
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	97		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	75		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1828986**Project Number:** 170505502**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1828986-12
 Client ID: RSBFB04_072618
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 17:23
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 19:16
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 07/28/18 17:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY**Lab Number:** L1828986**Project Number:** 170505502**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1828986-12
 Client ID: RSBFB04_072618
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 17:23
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	50		10-120
4-Terphenyl-d14	86		41-149

Project Name: 4650 BROADWAY**Lab Number:** L1828986**Project Number:** 170505502**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1828986-12
 Client ID: RSBFB04_072618
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 17:23
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/29/18 21:51
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/28/18 17:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY**Lab Number:** L1828986**Project Number:** 170505502**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1828986-12
 Client ID: RSBFB04_072618
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 17:23
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	92		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 02:13
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,08-09,11 Batch: WG1140567-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 02:13
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,08-09,11 Batch: WG1140567-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 07/29/18 02:13
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,08-09,11 Batch: WG1140567-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	101		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 14:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/28/18 17:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1140608-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 14:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/28/18 17:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1140608-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 14:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/28/18 17:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1140608-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Tentatively Identified Compounds

Total TIC Compounds	42.4	J	ug/l
Aldol Condensates	42.4	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	84		41-149

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/29/18 16:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/28/18 17:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 12 Batch: WG1140609-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D-SIM
 Analytical Date: 07/29/18 16:12
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/28/18 17:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 12 Batch: WG1140609-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	90		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,08-09,11 Batch: WG1140567-2 WG1140567-3								
Acenaphthene	76		88		31-137	15		50
1,2,4-Trichlorobenzene	75		83		38-107	10		50
Hexachlorobenzene	79		91		40-140	14		50
Bis(2-chloroethyl)ether	76		86		40-140	12		50
2-Chloronaphthalene	81		91		40-140	12		50
1,2-Dichlorobenzene	74		83		40-140	11		50
1,3-Dichlorobenzene	74		82		40-140	10		50
1,4-Dichlorobenzene	73		82		28-104	12		50
3,3'-Dichlorobenzidine	65		60		40-140	8		50
2,4-Dinitrotoluene	84		95		40-132	12		50
2,6-Dinitrotoluene	85		96		40-140	12		50
Fluoranthene	81		92		40-140	13		50
4-Chlorophenyl phenyl ether	75		85		40-140	13		50
4-Bromophenyl phenyl ether	80		91		40-140	13		50
Bis(2-chloroisopropyl)ether	78		90		40-140	14		50
Bis(2-chloroethoxy)methane	79		90		40-117	13		50
Hexachlorobutadiene	75		83		40-140	10		50
Hexachlorocyclopentadiene	76		82		40-140	8		50
Hexachloroethane	74		82		40-140	10		50
Isophorone	82		92		40-140	11		50
Naphthalene	77		84		40-140	9		50
Nitrobenzene	79		91		40-140	14		50
NDPA/DPA	80		92		36-157	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,08-09,11 Batch: WG1140567-2 WG1140567-3								
n-Nitrosodi-n-propylamine	80		91		32-121	13		50
Bis(2-ethylhexyl)phthalate	81		95		40-140	16		50
Butyl benzyl phthalate	89		100		40-140	12		50
Di-n-butylphthalate	81		93		40-140	14		50
Di-n-octylphthalate	85		100		40-140	16		50
Diethyl phthalate	82		93		40-140	13		50
Dimethyl phthalate	86		94		40-140	9		50
Benzo(a)anthracene	78		91		40-140	15		50
Benzo(a)pyrene	84		99		40-140	16		50
Benzo(b)fluoranthene	81		98		40-140	19		50
Benzo(k)fluoranthene	80		92		40-140	14		50
Chrysene	79		92		40-140	15		50
Acenaphthylene	82		91		40-140	10		50
Anthracene	80		92		40-140	14		50
Benzo(ghi)perylene	79		91		40-140	14		50
Fluorene	79		92		40-140	15		50
Phenanthrene	77		90		40-140	16		50
Dibenzo(a,h)anthracene	80		92		40-140	14		50
Indeno(1,2,3-cd)pyrene	80		93		40-140	15		50
Pyrene	81		92		35-142	13		50
Biphenyl	83		94		54-104	12		50
4-Chloroaniline	72		77		40-140	7		50
2-Nitroaniline	88		99		47-134	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,08-09,11 Batch: WG1140567-2 WG1140567-3								
3-Nitroaniline	69		76		26-129	10		50
4-Nitroaniline	81		92		41-125	13		50
Dibenzofuran	77		89		40-140	14		50
2-Methylnaphthalene	79		87		40-140	10		50
1,2,4,5-Tetrachlorobenzene	78		88		40-117	12		50
Acetophenone	84		93		14-144	10		50
2,4,6-Trichlorophenol	86		98		30-130	13		50
p-Chloro-m-cresol	88		97		26-103	10		50
2-Chlorophenol	81		88		25-102	8		50
2,4-Dichlorophenol	85		95		30-130	11		50
2,4-Dimethylphenol	85		95		30-130	11		50
2-Nitrophenol	79		88		30-130	11		50
4-Nitrophenol	97		107		11-114	10		50
2,4-Dinitrophenol	74		85		4-130	14		50
4,6-Dinitro-o-cresol	82		98		10-130	18		50
Pentachlorophenol	84		91		17-109	8		50
Phenol	80		89		26-90	11		50
2-Methylphenol	84		94		30-130	11		50
3-Methylphenol/4-Methylphenol	83		94		30-130	12		50
2,4,5-Trichlorophenol	85		98		30-130	14		50
Benzoic Acid	62		74		10-110	18		50
Benzyl Alcohol	84		94		40-140	11		50
Carbazole	81		93		54-128	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,08-09,11 Batch: WG1140567-2 WG1140567-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		95		25-120
Phenol-d6	86		97		10-120
Nitrobenzene-d5	80		91		23-120
2-Fluorobiphenyl	81		88		30-120
2,4,6-Tribromophenol	85		95		10-136
4-Terphenyl-d14	82		91		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1140608-2 WG1140608-3								
Acenaphthene	69		70		37-111	1		30
1,2,4-Trichlorobenzene	62		62		39-98	0		30
Hexachlorobenzene	62		64		40-140	3		30
Bis(2-chloroethyl)ether	65		70		40-140	7		30
2-Chloronaphthalene	67		72		40-140	7		30
1,2-Dichlorobenzene	60		58		40-140	3		30
1,3-Dichlorobenzene	57		59		40-140	3		30
1,4-Dichlorobenzene	58		59		36-97	2		30
3,3'-Dichlorobenzidine	60		62		40-140	3		30
2,4-Dinitrotoluene	68		71		48-143	4		30
2,6-Dinitrotoluene	73		76		40-140	4		30
Fluoranthene	69		75		40-140	8		30
4-Chlorophenyl phenyl ether	66		70		40-140	6		30
4-Bromophenyl phenyl ether	64		68		40-140	6		30
Bis(2-chloroisopropyl)ether	63		66		40-140	5		30
Bis(2-chloroethoxy)methane	67		72		40-140	7		30
Hexachlorobutadiene	59		62		40-140	5		30
Hexachlorocyclopentadiene	56		56		40-140	0		30
Hexachloroethane	58		57		40-140	2		30
Isophorone	64		68		40-140	6		30
Naphthalene	67		69		40-140	3		30
Nitrobenzene	63		67		40-140	6		30
NDPA/DPA	70		72		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828986

Project Number: 170505502

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1140608-2 WG1140608-3								
n-Nitrosodi-n-propylamine	67		73		29-132	9		30
Bis(2-ethylhexyl)phthalate	76		78		40-140	3		30
Butyl benzyl phthalate	71		77		40-140	8		30
Di-n-butylphthalate	71		75		40-140	5		30
Di-n-octylphthalate	72		72		40-140	0		30
Diethyl phthalate	72		73		40-140	1		30
Dimethyl phthalate	72		77		40-140	7		30
Benzo(a)anthracene	70		73		40-140	4		30
Benzo(a)pyrene	74		75		40-140	1		30
Benzo(b)fluoranthene	71		73		40-140	3		30
Benzo(k)fluoranthene	78		82		40-140	5		30
Chrysene	71		73		40-140	3		30
Acenaphthylene	68		73		45-123	7		30
Anthracene	71		74		40-140	4		30
Benzo(ghi)perylene	73		82		40-140	12		30
Fluorene	69		72		40-140	4		30
Phenanthrene	68		74		40-140	8		30
Dibenzo(a,h)anthracene	76		84		40-140	10		30
Indeno(1,2,3-cd)pyrene	78		82		40-140	5		30
Pyrene	68		74		26-127	8		30
Biphenyl	70		74		40-140	6		30
4-Chloroaniline	56		65		40-140	15		30
2-Nitroaniline	64		72		52-143	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1140608-2 WG1140608-3								
3-Nitroaniline	65		69		25-145	6		30
4-Nitroaniline	65		67		51-143	3		30
Dibenzofuran	67		70		40-140	4		30
2-Methylnaphthalene	67		71		40-140	6		30
1,2,4,5-Tetrachlorobenzene	65		65		2-134	0		30
Acetophenone	64		68		39-129	6		30
2,4,6-Trichlorophenol	69		74		30-130	7		30
p-Chloro-m-cresol	69		75		23-97	8		30
2-Chlorophenol	63		68		27-123	8		30
2,4-Dichlorophenol	68		74		30-130	8		30
2,4-Dimethylphenol	65		72		30-130	10		30
2-Nitrophenol	66		71		30-130	7		30
4-Nitrophenol	53		56		10-80	6		30
2,4-Dinitrophenol	60		53		20-130	12		30
4,6-Dinitro-o-cresol	64		63		20-164	2		30
Pentachlorophenol	58		54		9-103	7		30
Phenol	49		49		12-110	0		30
2-Methylphenol	64		65		30-130	2		30
3-Methylphenol/4-Methylphenol	62		66		30-130	6		30
2,4,5-Trichlorophenol	68		74		30-130	8		30
Benzoic Acid	60		58		10-164	3		30
Benzyl Alcohol	59		60		26-116	2		30
Carbazole	69		74		55-144	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1140608-2 WG1140608-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		57		21-120
Phenol-d6	47		48		10-120
Nitrobenzene-d5	65		67		23-120
2-Fluorobiphenyl	71		75		15-120
2,4,6-Tribromophenol	61		61		10-120
4-Terphenyl-d14	81		85		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 12 Batch: WG1140609-2 WG1140609-3								
Acenaphthene	88		80		40-140	10		40
2-Chloronaphthalene	87		81		40-140	7		40
Fluoranthene	106		99		40-140	7		40
Hexachlorobutadiene	71		71		40-140	0		40
Naphthalene	77		72		40-140	7		40
Benzo(a)anthracene	93		87		40-140	7		40
Benzo(a)pyrene	101		94		40-140	7		40
Benzo(b)fluoranthene	99		92		40-140	7		40
Benzo(k)fluoranthene	92		90		40-140	2		40
Chrysene	91		84		40-140	8		40
Acenaphthylene	105		97		40-140	8		40
Anthracene	95		88		40-140	8		40
Benzo(ghi)perylene	105		98		40-140	7		40
Fluorene	98		90		40-140	9		40
Phenanthrene	87		80		40-140	8		40
Dibenzo(a,h)anthracene	102		96		40-140	6		40
Indeno(1,2,3-cd)pyrene	103		97		40-140	6		40
Pyrene	101		96		40-140	5		40
2-Methylnaphthalene	83		78		40-140	6		40
Pentachlorophenol	74		72		40-140	3		40
Hexachlorobenzene	86		80		40-140	7		40
Hexachloroethane	70		71		40-140	1		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 12 Batch: WG1140609-2 WG1140609-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
2-Fluorophenol	66		61		21-120
Phenol-d6	54		50		10-120
Nitrobenzene-d5	96		88		23-120
2-Fluorobiphenyl	82		76		15-120
2,4,6-Tribromophenol	88		86		10-120
4-Terphenyl-d14	104		96		41-149

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-01

Client ID: RSB07_N1_7-8

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 12:24

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.2		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-03

Client ID: RSB07_SW1_7-8

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 11:33

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-05

Client ID: RSB07_SE1_7-8

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:35

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	63.1		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-08

Client ID: RSB07_R_5-7

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:02

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-09

Client ID: RSB07_R_7-8

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:03

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.6		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1828986-11

Client ID: RSB07_R_8-10

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/26/18 10:04

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.6		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828986

Report Date: 08/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,05,08-09,11 QC Batch ID: WG1140545-1 QC Sample: L1827523-03 Client ID: DUP Sample						
Solids, Total	91.8	90.7	%	1		20

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:08061810:15
Lab Number: L1828986
Report Date: 08/06/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1828986-01A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828986-02A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1828986-03A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828986-04A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1828986-05A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828986-06A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1828986-07A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1828986-08A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828986-09A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828986-10A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1828986-11A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828986-12A	Amber 250ml unpreserved	A	7	7	4.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1828986-12B	Amber 250ml unpreserved	A	7	7	4.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828986
Report Date: 08/06/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 7 1 of 2	Date Rec'd in Lab 7/26/18	ALPHA Job # 4024986					
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: 4650 Broadway Project Location: 4650 Broadway NY, NY Project # 170505502 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other	Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #				
Client Information Client: LANGAN Address: 3100 W. 31st St 8FL NY, NY Phone: Fax: Email: DLewy@langan.com		Project Manager: Julia Lewyng ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other TCL <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials					Sample Specific Comments
		Date	Time							
2498601	RSB07-N1-7-8	7/26/18	1224	S	DP	X				
02	RSB07-N2-7-8	7/26/18	1242	S	DP	X				ON HOLD
03	RSB07-SW1-7-0	↓	1133	S	DP	X				
04	RSB07-SW2-7-8	↓	1200	↓	↓	X				ON HOLD
05	RSB07-SE1-7-8	↓	1035	↓	↓	X				
06	RSB07-SE2-7-8	↓	1103	↓	↓	X				ON HOLD
07	RSB07-R-3-5	↓	1001	↓	↓	X				ON HOLD
08	RSB07-R-5-7	↓	1002	↓	↓	X				
09	RSB07-R-7-8	↓	1003	↓	↓	X				
10	RSB07-R-10-12	↓	1005	↓	↓	X				ON HOLD
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type	Preservative					Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
		Relinquished By:	Date/Time	Received By:	Date/Time					
		<i>[Signature]</i>	7/26/18 17:35	<i>[Signature]</i>	7/26/18 17:35					
		<i>[Signature]</i>	7/26/18 14:05	<i>[Signature]</i>	7/26/18 14:05					
		<i>[Signature]</i>	7/26/18 08:55	<i>[Signature]</i>	7/26/18 08:55					

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave. Suite 105	Page 3 of 2 of 2	Date Rec'd in Lab 7/26/18	ALPHA Job # 21829986		
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3286	Project Information Project Name: <u>4650 Broadway</u> Project Location: Project # <u>170505502</u> (Use Project name as Project #) <input type="checkbox"/>	Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> Other <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (4 File)	Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #	Client Information Client: <u>LANGAN</u> Address: <u>3600 W. 21st St FL</u> <u>NY, NY</u> Phone: Fax: Email: <u>JLping@langan.com</u>	Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> Other <u>TCL</u>
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	ANALYSIS			Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)	
Other project specific requirements/comments:		Please specify Metals or TAL.			Total Bottles		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix		Sampler's Initials	Sample Specific Comments
		Date	Time				
24946.11	<u>RSB07-R-8-10</u>	<u>7/26/18</u>	<u>1004</u>	<u>S</u>		<u>DP</u>	<u>X</u>
	<u>RSBMS04-072618</u>	<u>7/26/18</u>	<u>1500</u>	<u>S</u>		<u>↓</u>	<u>X</u>
	<u>RSBMS104-072618</u>	<u>7/26/18</u>	<u>1620</u>	<u>S</u>	<u>↓</u>	<u>X</u>	
	<u>RSB10-10-8</u>				<u>DP</u>		
.12	<u>RS3FB04-072618</u>	<u>7/26/18</u>	<u>1723</u>	<u>AQ</u>	<u>DP</u>	<u>X</u>	



ANALYTICAL REPORT

Lab Number:	L1828987
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505502
Report Date:	08/01/18

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), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1828987-01	RSB13_R_7-8	SOIL	NEW YORK, NY	07/26/18 14:00	07/26/18
L1828987-02	RSB13_R_8-10	SOIL	NEW YORK, NY	07/26/18 14:00	07/26/18
L1828987-03	RSB13_R_10-12	SOIL	NEW YORK, NY	07/26/18 14:00	07/26/18
L1828987-04	RSB13_NW1_7-8	SOIL	NEW YORK, NY	07/26/18 13:34	07/26/18
L1828987-05	RSB13_NW2_7-8	SOIL	NEW YORK, NY	07/26/18 13:15	07/26/18
L1828987-06	RSB13_E2_7-8	SOIL	NEW YORK, NY	07/26/18 15:19	07/26/18
L1828987-07	RSB13_S1_7-8	SOIL	NEW YORK, NY	07/26/18 14:24	07/26/18
L1828987-08	RSB13_S2_7-8	SOIL	NEW YORK, NY	07/26/18 15:00	07/26/18
L1828987-09	RSBDUP04_072618	SOIL	NEW YORK, NY	07/26/18 00:00	07/26/18

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

Case Narrative (continued)

Report Submission

August 01, 2018: This final report includes the results of all requested analyses.

July 30, 2018: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 08/01/18

ORGANICS

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-01
 Client ID: RSB13_R_7-8
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:00
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 07:44
 Analyst: EK
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 4650 BROADWAY

Lab Number: L1828987

Project Number: 170505502

Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-01
 Client ID: RSB13_R_7-8
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:00
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-01
Client ID: RSB13_R_7-8
Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:00
Date Received: 07/26/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	102		25-120
Phenol-d6	103		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	72		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-02
 Client ID: RSB13_R_8-10
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:00
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 05:37
 Analyst: EK
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-02
Client ID: RSB13_R_8-10
Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:00
Date Received: 07/26/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-02
Client ID: RSB13_R_8-10
Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:00
Date Received: 07/26/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	65		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-04
 Client ID: RSB13_NW1_7-8
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 13:34
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 07:18
 Analyst: EK
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	57	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 4650 BROADWAY

Lab Number: L1828987

Project Number: 170505502

Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-04
 Client ID: RSB13_NW1_7-8
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 13:34
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	31	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	35	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	29	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	27	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	56	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-04
 Client ID: RSB13_NW1_7-8
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 13:34
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	66		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-07
 Client ID: RSB13_S1_7-8
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:24
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 06:28
 Analyst: EK
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	23	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-07
Client ID: RSB13_S1_7-8
Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:24
Date Received: 07/26/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	20	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-07
 Client ID: RSB13_S1_7-8
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:24
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	81		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1828987**Project Number:** 170505502**Report Date:** 08/01/18**SAMPLE RESULTS**

Lab ID: L1828987-09
 Client ID: RSDUP04_072618
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 00:00
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 06:53
 Analyst: EK
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 4650 BROADWAY

Lab Number: L1828987

Project Number: 170505502

Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-09
 Client ID: RSDUP04_072618
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 00:00
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	21	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-09
 Client ID: RSBDUP04_072618
 Sample Location: NEW YORK, NY

Date Collected: 07/26/18 00:00
 Date Received: 07/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	89		18-120

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 02:13
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04,07,09 Batch: WG1140567-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 02:13
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04,07,09 Batch: WG1140567-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 02:13
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 07/28/18 12:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04,07,09 Batch: WG1140567-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	101		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828987

Project Number: 170505502

Report Date: 08/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,07,09 Batch: WG1140567-2 WG1140567-3								
Acenaphthene	76		88		31-137	15		50
1,2,4-Trichlorobenzene	75		83		38-107	10		50
Hexachlorobenzene	79		91		40-140	14		50
Bis(2-chloroethyl)ether	76		86		40-140	12		50
2-Chloronaphthalene	81		91		40-140	12		50
1,2-Dichlorobenzene	74		83		40-140	11		50
1,3-Dichlorobenzene	74		82		40-140	10		50
1,4-Dichlorobenzene	73		82		28-104	12		50
3,3'-Dichlorobenzidine	65		60		40-140	8		50
2,4-Dinitrotoluene	84		95		40-132	12		50
2,6-Dinitrotoluene	85		96		40-140	12		50
Fluoranthene	81		92		40-140	13		50
4-Chlorophenyl phenyl ether	75		85		40-140	13		50
4-Bromophenyl phenyl ether	80		91		40-140	13		50
Bis(2-chloroisopropyl)ether	78		90		40-140	14		50
Bis(2-chloroethoxy)methane	79		90		40-117	13		50
Hexachlorobutadiene	75		83		40-140	10		50
Hexachlorocyclopentadiene	76		82		40-140	8		50
Hexachloroethane	74		82		40-140	10		50
Isophorone	82		92		40-140	11		50
Naphthalene	77		84		40-140	9		50
Nitrobenzene	79		91		40-140	14		50
NDPA/DPA	80		92		36-157	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828987

Project Number: 170505502

Report Date: 08/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,07,09 Batch: WG1140567-2 WG1140567-3								
n-Nitrosodi-n-propylamine	80		91		32-121	13		50
Bis(2-ethylhexyl)phthalate	81		95		40-140	16		50
Butyl benzyl phthalate	89		100		40-140	12		50
Di-n-butylphthalate	81		93		40-140	14		50
Di-n-octylphthalate	85		100		40-140	16		50
Diethyl phthalate	82		93		40-140	13		50
Dimethyl phthalate	86		94		40-140	9		50
Benzo(a)anthracene	78		91		40-140	15		50
Benzo(a)pyrene	84		99		40-140	16		50
Benzo(b)fluoranthene	81		98		40-140	19		50
Benzo(k)fluoranthene	80		92		40-140	14		50
Chrysene	79		92		40-140	15		50
Acenaphthylene	82		91		40-140	10		50
Anthracene	80		92		40-140	14		50
Benzo(ghi)perylene	79		91		40-140	14		50
Fluorene	79		92		40-140	15		50
Phenanthrene	77		90		40-140	16		50
Dibenzo(a,h)anthracene	80		92		40-140	14		50
Indeno(1,2,3-cd)pyrene	80		93		40-140	15		50
Pyrene	81		92		35-142	13		50
Biphenyl	83		94		54-104	12		50
4-Chloroaniline	72		77		40-140	7		50
2-Nitroaniline	88		99		47-134	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1828987

Project Number: 170505502

Report Date: 08/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,07,09 Batch: WG1140567-2 WG1140567-3								
3-Nitroaniline	69		76		26-129	10		50
4-Nitroaniline	81		92		41-125	13		50
Dibenzofuran	77		89		40-140	14		50
2-Methylnaphthalene	79		87		40-140	10		50
1,2,4,5-Tetrachlorobenzene	78		88		40-117	12		50
Acetophenone	84		93		14-144	10		50
2,4,6-Trichlorophenol	86		98		30-130	13		50
p-Chloro-m-cresol	88		97		26-103	10		50
2-Chlorophenol	81		88		25-102	8		50
2,4-Dichlorophenol	85		95		30-130	11		50
2,4-Dimethylphenol	85		95		30-130	11		50
2-Nitrophenol	79		88		30-130	11		50
4-Nitrophenol	97		107		11-114	10		50
2,4-Dinitrophenol	74		85		4-130	14		50
4,6-Dinitro-o-cresol	82		98		10-130	18		50
Pentachlorophenol	84		91		17-109	8		50
Phenol	80		89		26-90	11		50
2-Methylphenol	84		94		30-130.	11		50
3-Methylphenol/4-Methylphenol	83		94		30-130	12		50
2,4,5-Trichlorophenol	85		98		30-130	14		50
Benzoic Acid	62		74		10-110	18		50
Benzyl Alcohol	84		94		40-140	11		50
Carbazole	81		93		54-128	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,07,09 Batch: WG1140567-2 WG1140567-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	84		95		25-120
Phenol-d6	86		97		10-120
Nitrobenzene-d5	80		91		23-120
2-Fluorobiphenyl	81		88		30-120
2,4,6-Tribromophenol	85		95		10-136
4-Terphenyl-d14	82		91		18-120

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828987

Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-01

Client ID: RSB13_R_7-8

Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:00

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828987

Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-02

Client ID: RSB13_R_8-10

Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:00

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828987

Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-04

Client ID: RSB13_NW1_7-8

Sample Location: NEW YORK, NY

Date Collected: 07/26/18 13:34

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828987

Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-07

Client ID: RSB13_S1_7-8

Sample Location: NEW YORK, NY

Date Collected: 07/26/18 14:24

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828987

Report Date: 08/01/18

SAMPLE RESULTS

Lab ID: L1828987-09

Client ID: RSBDUP04_072618

Sample Location: NEW YORK, NY

Date Collected: 07/26/18 00:00

Date Received: 07/26/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	07/28/18 11:57	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505502

Lab Number: L1828987

Report Date: 08/01/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,04,07,09 QC Batch ID: WG1140545-1 QC Sample: L1827523-03 Client ID: DUP Sample						
Solids, Total	91.8	90.7	%	1		20

Project Name: 4650 BROADWAY
Project Number: 170505502

Serial_No:08011816:29
Lab Number: L1828987
Report Date: 08/01/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1828987-01A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828987-02A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828987-03A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1828987-04A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828987-05A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1828987-06A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1828987-07A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)
L1828987-08A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1828987-09A	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7)

*Values in parentheses indicate holding time in days



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505502

Lab Number: L1828987
Report Date: 08/01/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1829127
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	08/12/18

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), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1829127-01	RSB16_13-14	SOIL	4650 BROADWAY, NY, NY	07/27/18 09:24	07/27/18
L1829127-02	RSB17_7-8	SOIL	4650 BROADWAY, NY, NY	07/27/18 11:05	07/27/18
L1829127-03	RSB17_8-9	SOIL	4650 BROADWAY, NY, NY	07/27/18 11:00	07/27/18
L1829127-04	RSB19_7-8	SOIL	4650 BROADWAY, NY, NY	07/27/18 12:10	07/27/18
L1829127-05	RSB19_8-9	SOIL	4650 BROADWAY, NY, NY	07/27/18 12:01	07/27/18
L1829127-06	RSB18_4-6	SOIL	4650 BROADWAY, NY, NY	07/27/18 13:35	07/27/18
L1829127-07	RSB18_8-9	SOIL	4650 BROADWAY, NY, NY	07/27/18 13:30	07/27/18
L1829127-08	RSBDUP03_072718	SOIL	4650 BROADWAY, NY, NY	07/27/18 00:00	07/27/18
L1829127-09	RSB13_E1_7-8	SOIL	4650 BROADWAY, NY, NY	07/27/18 14:14	07/27/18
L1829127-10	RSBTB05_072718	WATER	4650 BROADWAY, NY, NY	07/27/18 14:25	07/27/18
L1829127-11	RSBFB03_072718	WATER	4650 BROADWAY, NY, NY	07/27/18 14:41	07/27/18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Case Narrative (continued)

Report Submission

August 12, 2018: This final report includes the results of all requested analyses.

August 03, 2018: This preliminary report includes the results of the Volatile Organics and Semivolatile Organics analyses performed on L1829127-01 through -06 and -08.

July 30, 2018: This is a preliminary report.

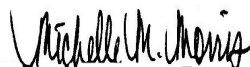
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1829127-01: The collection date and time on the chain of custody was 27-JUL-18 09:04; however, the collection date/time on the container label was 27-JUL-18 09:24. At the client's request, the collection date/time is reported as 27-JUL-18 09:24.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 08/12/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-01
Client ID: RSB16_13-14
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 09:24
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/02/18 12:19
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-01
 Client ID: RSB16_13-14
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 09:24
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	38		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.66	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-01
Client ID: RSB16_13-14
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 09:24
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	100	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	103		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-02
Client ID: RSB17_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:05
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/02/18 12:46
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	0.31	J	ug/kg	0.56	0.19	1
Toluene	1.6		ug/kg	1.1	0.61	1
Ethylbenzene	11		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-02
 Client ID: RSB17_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:05
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.23	1
p/m-Xylene	74		ug/kg	2.2	0.63	1
o-Xylene	5.1		ug/kg	1.1	0.33	1
Xylenes, Total	79		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	22		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	0.88	J	ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.22	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	8.3		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.85	J	ug/kg	1.1	0.12	1
Naphthalene	21		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-02
Client ID: RSB17_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:05
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	18		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.31	1
1,3,5-Trimethylbenzene	53		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	160		ug/kg	2.2	0.38	1
1,4-Dioxane	ND		ug/kg	110	40.	1
p-Diethylbenzene	13		ug/kg	2.2	0.20	1
p-Ethyltoluene	38		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	5.4		ug/kg	2.2	0.22	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	84		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-03
Client ID: RSB17_8-9
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:00
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/02/18 13:13
Analyst: JC
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-03
 Client ID: RSB17_8-9
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:00
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	12		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.20	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-03
Client ID: RSB17_8-9
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:00
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	110	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.20	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-04
Client ID: RSB19_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:10
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/02/18 13:40
Analyst: JC
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	0.33	J	ug/kg	0.49	0.16	1
Toluene	1.2		ug/kg	0.97	0.53	1
Ethylbenzene	19		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-04
 Client ID: RSB19_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:10
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	8.8		ug/kg	1.9	0.54	1
o-Xylene	2.7		ug/kg	0.97	0.28	1
Xylenes, Total	12		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	41		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	0.74	J	ug/kg	0.97	0.16	1
sec-Butylbenzene	0.86	J	ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	6.8		ug/kg	0.97	0.10	1
p-Isopropyltoluene	0.23	J	ug/kg	0.97	0.10	1
Naphthalene	6.4		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-04
Client ID: RSB19_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:10
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	11		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	1.8	J	ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	97	34.	1
p-Diethylbenzene	1.7	J	ug/kg	1.9	0.17	1
p-Ethyltoluene	8.4		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	4.6		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	79		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-05
Client ID: RSB19_8-9
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:01
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/02/18 14:07
Analyst: JC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.20	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	0.26	J	ug/kg	0.58	0.19	1
Toluene	0.78	J	ug/kg	1.2	0.64	1
Ethylbenzene	0.53	J	ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-05
 Client ID: RSB19_8-9
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:01
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.24	1
p/m-Xylene	ND		ug/kg	2.3	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	10	J	ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	0.26	J	ug/kg	1.2	0.17	1
tert-Butylbenzene	0.15	J	ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	0.48	J	ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.3	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-05
Client ID: RSB19_8-9
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:01
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	0.31	J	ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	120	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	93		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-06
Client ID: RSB18_4-6
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 13:35
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/02/18 14:34
Analyst: MKS
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.5	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.91	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.91	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.91	0.11	1
Dibromochloromethane	ND		ug/kg	0.91	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.91	0.24	1
Tetrachloroethene	ND		ug/kg	0.45	0.18	1
Chlorobenzene	ND		ug/kg	0.45	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.63	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.45	0.15	1
Bromodichloromethane	ND		ug/kg	0.45	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.45	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.45	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.45	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.45	0.15	1
Benzene	0.16	J	ug/kg	0.45	0.15	1
Toluene	0.67	J	ug/kg	0.91	0.49	1
Ethylbenzene	ND		ug/kg	0.91	0.13	1
Chloromethane	ND		ug/kg	3.6	0.84	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.91	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-06
 Client ID: RSB18_4-6
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 13:35
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.45	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.91	0.26	1
Xylenes, Total	ND		ug/kg	0.91	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.91	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.83	1
Acetone	15		ug/kg	9.1	4.4	1
Carbon disulfide	ND		ug/kg	9.1	4.1	1
2-Butanone	ND		ug/kg	9.1	2.0	1
Vinyl acetate	ND		ug/kg	9.1	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.1	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.91	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.45	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.91	0.15	1
sec-Butylbenzene	ND		ug/kg	0.91	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.91	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.91	0.10	1
Naphthalene	ND		ug/kg	3.6	0.59	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-06
Client ID: RSB18_4-6
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 13:35
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.91	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	91	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-08
Client ID: RSDUP03_072718
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 00:00
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/02/18 15:01
Analyst: MKS
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	0.16	J	ug/kg	0.47	0.16	1
Toluene	0.52	J	ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.94	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-08
 Client ID: RSDUP03_072718
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 00:00
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.94	0.27	1
Xylenes, Total	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.94	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	27		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	ND		ug/kg	9.4	2.1	1
Vinyl acetate	ND		ug/kg	9.4	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.8	0.61	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-08
Client ID: RSBDUP03_072718
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 00:00
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	94	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	103		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-10
 Client ID: RSBTB05_072718
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:25
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/30/18 09:21
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-10
 Client ID: RSBTB05_072718
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:25
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-10
Client ID: RSBTB05_072718
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:25
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	119		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	109		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-11
Client ID: RSBFB03_072718
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:41
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/30/18 09:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-11
 Client ID: RSBFB03_072718
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:41
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-11
Client ID: RSBFB03_072718
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:41
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	116		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	108		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/30/18 08:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1140875-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/30/18 08:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1140875-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/30/18 08:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1140875-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	119		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	108		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 08:44
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06,08 Batch: WG1142213-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 08:44
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06,08 Batch: WG1142213-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 08:44
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06,08 Batch: WG1142213-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds

Total TIC Compounds	2.63	J	ug/kg
Cyclotrisiloxane, Hexamethyl-	2.63	NJ	ug/kg

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/02/18 08:44
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06,08 Batch: WG1142213-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1140875-3 WG1140875-4								
Methylene chloride	96		92		70-130	4		20
1,1-Dichloroethane	100		98		70-130	2		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	93		95		70-130	2		20
Dibromochloromethane	99		99		63-130	0		20
1,1,2-Trichloroethane	89		89		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	91		90		75-130	1		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	99		96		70-130	3		20
cis-1,3-Dichloropropene	99		97		70-130	2		20
1,1-Dichloropropene	99		96		70-130	3		20
Bromoform	120		120		54-136	0		20
1,1,2,2-Tetrachloroethane	81		83		67-130	2		20
Benzene	100		97		70-130	3		20
Toluene	88		87		70-130	1		20
Ethylbenzene	94		92		70-130	2		20
Chloromethane	140	Q	140	Q	64-130	0		20
Bromomethane	110		120		39-139	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1140875-3 WG1140875-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	100		98		55-138	2		20
1,1-Dichloroethene	98		96		61-145	2		20
trans-1,2-Dichloroethene	96		96		70-130	0		20
Trichloroethene	100		95		70-130	5		20
1,2-Dichlorobenzene	87		88		70-130	1		20
1,3-Dichlorobenzene	89		90		70-130	1		20
1,4-Dichlorobenzene	86		87		70-130	1		20
Methyl tert butyl ether	98		97		63-130	1		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	85		95		70-130	11		20
cis-1,2-Dichloroethene	97		95		70-130	2		20
Dibromomethane	99		100		70-130	1		20
1,2,3-Trichloropropane	84		83		64-130	1		20
Acrylonitrile	120		120		70-130	0		20
Styrene	115		110		70-130	4		20
Dichlorodifluoromethane	100		94		36-147	6		20
Acetone	130		130		58-148	0		20
Carbon disulfide	93		89		51-130	4		20
2-Butanone	150	Q	140	Q	63-138	7		20
Vinyl acetate	130		130		70-130	0		20
4-Methyl-2-pentanone	96		91		59-130	5		20
2-Hexanone	120		120		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1140875-3 WG1140875-4								
Bromochloromethane	110		100		70-130	10		20
2,2-Dichloropropane	120		110		63-133	9		20
1,2-Dibromoethane	94		93		70-130	1		20
1,3-Dichloropropane	90		88		70-130	2		20
1,1,1,2-Tetrachloroethane	98		97		64-130	1		20
Bromobenzene	89		90		70-130	1		20
n-Butylbenzene	85		85		53-136	0		20
sec-Butylbenzene	85		86		70-130	1		20
tert-Butylbenzene	85		87		70-130	2		20
o-Chlorotoluene	85		86		70-130	1		20
p-Chlorotoluene	85		85		70-130	0		20
1,2-Dibromo-3-chloropropane	93		100		41-144	7		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	83		84		70-130	1		20
p-Isopropyltoluene	87		87		70-130	0		20
Naphthalene	82		84		70-130	2		20
n-Propylbenzene	83		84		69-130	1		20
1,2,3-Trichlorobenzene	93		94		70-130	1		20
1,2,4-Trichlorobenzene	92		94		70-130	2		20
1,3,5-Trimethylbenzene	86		86		64-130	0		20
1,2,4-Trimethylbenzene	62	Q	64	Q	70-130	3		20
1,4-Dioxane	118		104		56-162	13		20
p-Diethylbenzene	84		84		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1140875-3 WG1140875-4								
p-Ethyltoluene	84		86		70-130	2		20
1,2,4,5-Tetramethylbenzene	83		85		70-130	2		20
Ethyl ether	91		91		59-134	0		20
trans-1,4-Dichloro-2-butene	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		121		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	91		92		70-130
Dibromofluoromethane	111		110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06,08 Batch: WG1142213-3 WG1142213-4								
Methylene chloride	107		104		70-130	3		30
1,1-Dichloroethane	116		117		70-130	1		30
Chloroform	108		107		70-130	1		30
Carbon tetrachloride	104		102		70-130	2		30
1,2-Dichloropropane	112		113		70-130	1		30
Dibromochloromethane	92		94		70-130	2		30
1,1,2-Trichloroethane	105		108		70-130	3		30
Tetrachloroethene	96		96		70-130	0		30
Chlorobenzene	94		98		70-130	4		30
Trichlorofluoromethane	107		106		70-139	1		30
1,2-Dichloroethane	117		118		70-130	1		30
1,1,1-Trichloroethane	110		108		70-130	2		30
Bromodichloromethane	106		106		70-130	0		30
trans-1,3-Dichloropropene	110		108		70-130	2		30
cis-1,3-Dichloropropene	109		111		70-130	2		30
1,1-Dichloropropene	108		111		70-130	3		30
Bromoform	96		96		70-130	0		30
1,1,2,2-Tetrachloroethane	102		106		70-130	4		30
Benzene	107		108		70-130	1		30
Toluene	106		108		70-130	2		30
Ethylbenzene	104		106		70-130	2		30
Chloromethane	138	Q	136	Q	52-130	1		30
Bromomethane	108		103		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06,08 Batch: WG1142213-3 WG1142213-4								
Vinyl chloride	142	Q	140	Q	67-130	1		30
Chloroethane	143		142		50-151	1		30
1,1-Dichloroethene	107		106		65-135	1		30
trans-1,2-Dichloroethene	107		108		70-130	1		30
Trichloroethene	102		100		70-130	2		30
1,2-Dichlorobenzene	90		95		70-130	5		30
1,3-Dichlorobenzene	92		96		70-130	4		30
1,4-Dichlorobenzene	90		93		70-130	3		30
Methyl tert butyl ether	94		96		66-130	2		30
p/m-Xylene	102		107		70-130	5		30
o-Xylene	99		102		70-130	3		30
cis-1,2-Dichloroethene	102		101		70-130	1		30
Dibromomethane	98		98		70-130	0		30
Styrene	99		103		70-130	4		30
Dichlorodifluoromethane	113		111		30-146	2		30
Acetone	143	Q	122		54-140	16		30
Carbon disulfide	114		112		59-130	2		30
2-Butanone	99		102		70-130	3		30
Vinyl acetate	109		113		70-130	4		30
4-Methyl-2-pentanone	104		103		70-130	1		30
1,2,3-Trichloropropane	106		110		68-130	4		30
2-Hexanone	85		96		70-130	12		30
Bromochloromethane	92		93		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06,08 Batch: WG1142213-3 WG1142213-4								
2,2-Dichloropropane	115		117		70-130	2		30
1,2-Dibromoethane	95		95		70-130	0		30
1,3-Dichloropropane	107		110		69-130	3		30
1,1,1,2-Tetrachloroethane	94		97		70-130	3		30
Bromobenzene	92		96		70-130	4		30
n-Butylbenzene	112		113		70-130	1		30
sec-Butylbenzene	107		108		70-130	1		30
tert-Butylbenzene	95		98		70-130	3		30
o-Chlorotoluene	104		109		70-130	5		30
p-Chlorotoluene	105		109		70-130	4		30
1,2-Dibromo-3-chloropropane	87		93		68-130	7		30
Hexachlorobutadiene	108		113		67-130	5		30
Isopropylbenzene	101		104		70-130	3		30
p-Isopropyltoluene	97		100		70-130	3		30
Naphthalene	81		84		70-130	4		30
Acrylonitrile	110		108		70-130	2		30
n-Propylbenzene	107		110		70-130	3		30
1,2,3-Trichlorobenzene	96		98		70-130	2		30
1,2,4-Trichlorobenzene	92		94		70-130	2		30
1,3,5-Trimethylbenzene	103		108		70-130	5		30
1,2,4-Trimethylbenzene	106		108		70-130	2		30
1,4-Dioxane	92		96		65-136	4		30
p-Diethylbenzene	91		95		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06,08 Batch: WG1142213-3 WG1142213-4								
p-Ethyltoluene	101		106		70-130	5		30
1,2,4,5-Tetramethylbenzene	90		91		70-130	1		30
Ethyl ether	99		100		67-130	1		30
trans-1,4-Dichloro-2-butene	118		126		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		109		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	111		108		70-130
Dibromofluoromethane	97		93		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-01
Client ID: RSB16_13-14
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 09:24
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/29/18 17:21
Analyst: PS
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 07/28/18 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-01
 Client ID: RSB16_13-14
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 09:24
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-01
Client ID: RSB16_13-14
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 09:24
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	42		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-02
Client ID: RSB17_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:05
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/29/18 17:46
Analyst: PS
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 07/28/18 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	54	J	ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-02
 Client ID: RSB17_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:05
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	33	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-02
Client ID: RSB17_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:05
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	52		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-03
 Client ID: RSB17_8-9
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:00
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 18:12
 Analyst: PS
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-03
 Client ID: RSB17_8-9
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:00
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	79.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-03
 Client ID: RSB17_8-9
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:00
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	65		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-04
 Client ID: RSB19_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:10
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 18:37
 Analyst: PS
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-04
 Client ID: RSB19_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:10
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	79.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-04
Client ID: RSB19_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:10
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	59		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-05
Client ID: RSB19_8-9
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:01
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/29/18 19:03
Analyst: PS
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 07/28/18 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	160	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-05
 Client ID: RSB19_8-9
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:01
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-05
Client ID: RSB19_8-9
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:01
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	48		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-06
 Client ID: RSB18_4-6
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 13:35
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 19:28
 Analyst: PS
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-06
 Client ID: RSB18_4-6
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 13:35
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-06
Client ID: RSB18_4-6
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 13:35
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	53		18-120

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-08
 Client ID: RSDUP03_072718
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 00:00
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 19:53
 Analyst: PS
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-08
 Client ID: RSDUP03_072718
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 00:00
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829127**Project Number:** 170505501**Report Date:** 08/12/18**SAMPLE RESULTS**

Lab ID: L1829127-08
 Client ID: RSBDUP03_072718
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 00:00
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	49		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-09
 Client ID: RSB13_E1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:14
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/29/18 20:19
 Analyst: PS
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 07/28/18 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	55	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-09
 Client ID: RSB13_E1_7-8
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:14
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	26	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	39	J	ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	27	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	25	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	48	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-09
Client ID: RSB13_E1_7-8
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:14
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	47		10-136
4-Terphenyl-d14	50		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-11
Client ID: RSBFB03_072718
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:41
Date Received: 07/27/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/29/18 18:49
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/28/18 17:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-11
 Client ID: RSBFB03_072718
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:41
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1

Project Name: 4650 BROADWAY**Lab Number:** L1829127**Project Number:** 170505501**Report Date:** 08/12/18**SAMPLE RESULTS**

Lab ID: L1829127-11
 Client ID: RSBFB03_072718
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:41
 Date Received: 07/27/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	94		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 14:23
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 07/27/18 13:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08-09 Batch: WG1140317-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 14:23
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 07/27/18 13:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08-09 Batch: WG1140317-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 14:23
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 07/27/18 13:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08-09 Batch: WG1140317-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	82		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 14:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/28/18 17:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1140608-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 14:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/28/18 17:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1140608-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/29/18 14:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/28/18 17:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1140608-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Tentatively Identified Compounds

Total TIC Compounds	42.4	J	ug/l
Aldol Condensates	42.4	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	84		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08-09 Batch: WG1140317-2 WG1140317-3								
Acenaphthene	78		80		31-137	3		50
1,2,4-Trichlorobenzene	74		75		38-107	1		50
Hexachlorobenzene	80		83		40-140	4		50
Bis(2-chloroethyl)ether	80		79		40-140	1		50
2-Chloronaphthalene	81		81		40-140	0		50
1,2-Dichlorobenzene	78		76		40-140	3		50
1,3-Dichlorobenzene	78		75		40-140	4		50
1,4-Dichlorobenzene	75		73		28-104	3		50
3,3'-Dichlorobenzidine	61		58		40-140	5		50
2,4-Dinitrotoluene	83		87		40-132	5		50
2,6-Dinitrotoluene	81		86		40-140	6		50
Fluoranthene	84		83		40-140	1		50
4-Chlorophenyl phenyl ether	78		78		40-140	0		50
4-Bromophenyl phenyl ether	79		83		40-140	5		50
Bis(2-chloroisopropyl)ether	85		85		40-140	0		50
Bis(2-chloroethoxy)methane	82		84		40-117	2		50
Hexachlorobutadiene	78		78		40-140	0		50
Hexachlorocyclopentadiene	76		76		40-140	0		50
Hexachloroethane	77		75		40-140	3		50
Isophorone	86		84		40-140	2		50
Naphthalene	77		79		40-140	3		50
Nitrobenzene	82		79		40-140	4		50
NDPA/DPA	80		82		36-157	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08-09 Batch: WG1140317-2 WG1140317-3								
n-Nitrosodi-n-propylamine	84		84		32-121	0		50
Bis(2-ethylhexyl)phthalate	91		90		40-140	1		50
Butyl benzyl phthalate	90		91		40-140	1		50
Di-n-butylphthalate	85		83		40-140	2		50
Di-n-octylphthalate	92		93		40-140	1		50
Diethyl phthalate	83		84		40-140	1		50
Dimethyl phthalate	84		83		40-140	1		50
Benzo(a)anthracene	81		82		40-140	1		50
Benzo(a)pyrene	89		86		40-140	3		50
Benzo(b)fluoranthene	85		85		40-140	0		50
Benzo(k)fluoranthene	85		84		40-140	1		50
Chrysene	84		82		40-140	2		50
Acenaphthylene	80		79		40-140	1		50
Anthracene	83		83		40-140	0		50
Benzo(ghi)perylene	84		81		40-140	4		50
Fluorene	82		82		40-140	0		50
Phenanthrene	81		80		40-140	1		50
Dibenzo(a,h)anthracene	84		82		40-140	2		50
Indeno(1,2,3-cd)pyrene	85		83		40-140	2		50
Pyrene	83		82		35-142	1		50
Biphenyl	84		83		54-104	1		50
4-Chloroaniline	64		68		40-140	6		50
2-Nitroaniline	86		86		47-134	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08-09 Batch: WG1140317-2 WG1140317-3								
3-Nitroaniline	68		68		26-129	0		50
4-Nitroaniline	80		84		41-125	5		50
Dibenzofuran	78		80		40-140	3		50
2-Methylnaphthalene	79		78		40-140	1		50
1,2,4,5-Tetrachlorobenzene	78		79		40-117	1		50
Acetophenone	86		84		14-144	2		50
2,4,6-Trichlorophenol	83		89		30-130	7		50
p-Chloro-m-cresol	88		84		26-103	5		50
2-Chlorophenol	82		83		25-102	1		50
2,4-Dichlorophenol	86		85		30-130	1		50
2,4-Dimethylphenol	86		86		30-130	0		50
2-Nitrophenol	81		82		30-130	1		50
4-Nitrophenol	91		96		11-114	5		50
2,4-Dinitrophenol	73		72		4-130	1		50
4,6-Dinitro-o-cresol	81		82		10-130	1		50
Pentachlorophenol	79		79		17-109	0		50
Phenol	81		82		26-90	1		50
2-Methylphenol	87		88		30-130.	1		50
3-Methylphenol/4-Methylphenol	86		86		30-130	0		50
2,4,5-Trichlorophenol	85		84		30-130	1		50
Benzoic Acid	57		59		10-110	3		50
Benzyl Alcohol	87		84		40-140	4		50
Carbazole	83		83		54-128	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08-09 Batch: WG1140317-2 WG1140317-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		83		25-120
Phenol-d6	84		85		10-120
Nitrobenzene-d5	80		83		23-120
2-Fluorobiphenyl	75		79		30-120
2,4,6-Tribromophenol	79		82		10-136
4-Terphenyl-d14	78		80		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1140608-2 WG1140608-3								
Acenaphthene	69		70		37-111	1		30
1,2,4-Trichlorobenzene	62		62		39-98	0		30
Hexachlorobenzene	62		64		40-140	3		30
Bis(2-chloroethyl)ether	65		70		40-140	7		30
2-Chloronaphthalene	67		72		40-140	7		30
1,2-Dichlorobenzene	60		58		40-140	3		30
1,3-Dichlorobenzene	57		59		40-140	3		30
1,4-Dichlorobenzene	58		59		36-97	2		30
3,3'-Dichlorobenzidine	60		62		40-140	3		30
2,4-Dinitrotoluene	68		71		48-143	4		30
2,6-Dinitrotoluene	73		76		40-140	4		30
Fluoranthene	69		75		40-140	8		30
4-Chlorophenyl phenyl ether	66		70		40-140	6		30
4-Bromophenyl phenyl ether	64		68		40-140	6		30
Bis(2-chloroisopropyl)ether	63		66		40-140	5		30
Bis(2-chloroethoxy)methane	67		72		40-140	7		30
Hexachlorobutadiene	59		62		40-140	5		30
Hexachlorocyclopentadiene	56		56		40-140	0		30
Hexachloroethane	58		57		40-140	2		30
Isophorone	64		68		40-140	6		30
Naphthalene	67		69		40-140	3		30
Nitrobenzene	63		67		40-140	6		30
NDPA/DPA	70		72		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1140608-2 WG1140608-3								
n-Nitrosodi-n-propylamine	67		73		29-132	9		30
Bis(2-ethylhexyl)phthalate	76		78		40-140	3		30
Butyl benzyl phthalate	71		77		40-140	8		30
Di-n-butylphthalate	71		75		40-140	5		30
Di-n-octylphthalate	72		72		40-140	0		30
Diethyl phthalate	72		73		40-140	1		30
Dimethyl phthalate	72		77		40-140	7		30
Benzo(a)anthracene	70		73		40-140	4		30
Benzo(a)pyrene	74		75		40-140	1		30
Benzo(b)fluoranthene	71		73		40-140	3		30
Benzo(k)fluoranthene	78		82		40-140	5		30
Chrysene	71		73		40-140	3		30
Acenaphthylene	68		73		45-123	7		30
Anthracene	71		74		40-140	4		30
Benzo(ghi)perylene	73		82		40-140	12		30
Fluorene	69		72		40-140	4		30
Phenanthrene	68		74		40-140	8		30
Dibenzo(a,h)anthracene	76		84		40-140	10		30
Indeno(1,2,3-cd)pyrene	78		82		40-140	5		30
Pyrene	68		74		26-127	8		30
Biphenyl	70		74		40-140	6		30
4-Chloroaniline	56		65		40-140	15		30
2-Nitroaniline	64		72		52-143	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1140608-2 WG1140608-3								
3-Nitroaniline	65		69		25-145	6		30
4-Nitroaniline	65		67		51-143	3		30
Dibenzofuran	67		70		40-140	4		30
2-Methylnaphthalene	67		71		40-140	6		30
1,2,4,5-Tetrachlorobenzene	65		65		2-134	0		30
Acetophenone	64		68		39-129	6		30
2,4,6-Trichlorophenol	69		74		30-130	7		30
p-Chloro-m-cresol	69		75		23-97	8		30
2-Chlorophenol	63		68		27-123	8		30
2,4-Dichlorophenol	68		74		30-130	8		30
2,4-Dimethylphenol	65		72		30-130	10		30
2-Nitrophenol	66		71		30-130	7		30
4-Nitrophenol	53		56		10-80	6		30
2,4-Dinitrophenol	60		53		20-130	12		30
4,6-Dinitro-o-cresol	64		63		20-164	2		30
Pentachlorophenol	58		54		9-103	7		30
Phenol	49		49		12-110	0		30
2-Methylphenol	64		65		30-130	2		30
3-Methylphenol/4-Methylphenol	62		66		30-130	6		30
2,4,5-Trichlorophenol	68		74		30-130	8		30
Benzoic Acid	60		58		10-164	3		30
Benzyl Alcohol	59		60		26-116	2		30
Carbazole	69		74		55-144	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1140608-2 WG1140608-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	56		57		21-120
Phenol-d6	47		48		10-120
Nitrobenzene-d5	65		67		23-120
2-Fluorobiphenyl	71		75		15-120
2,4,6-Tribromophenol	61		61		10-120
4-Terphenyl-d14	81		85		41-149

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-01

Client ID: RSB16_13-14

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 09:24

Date Received: 07/27/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	07/28/18 08:55	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-02

Client ID: RSB17_7-8

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:05

Date Received: 07/27/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	07/28/18 08:55	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-03

Client ID: RSB17_8-9

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 11:00

Date Received: 07/27/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	07/28/18 08:55	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-04

Client ID: RSB19_7-8

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 12:10

Date Received: 07/27/18

Field Prep: Not Specified

Sample Depth:

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	-	07/28/18 08:55	121,2540G	RI



Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-05

Date Collected: 07/27/18 12:01

Client ID: RSB19_8-9

Date Received: 07/27/18

Sample Location: 4650 BROADWAY, NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.4		%	0.100	NA	1	-	07/28/18 08:55	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-06

Client ID: RSB18_4-6

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 13:35

Date Received: 07/27/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.2		%	0.100	NA	1	-	07/28/18 08:55	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-08

Client ID: RSBDUP03_072718

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 00:00

Date Received: 07/27/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	07/28/18 08:55	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

SAMPLE RESULTS

Lab ID: L1829127-09

Client ID: RSB13_E1_7-8

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 07/27/18 14:14

Date Received: 07/27/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	07/28/18 08:55	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829127

Report Date: 08/12/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06,08-09 QC Batch ID: WG1140509-1 QC Sample: L1829127-01 Client ID: RSB16_13-14						
Solids, Total	81.7	82.6	%	1		20

Project Name: 4650 BROADWAY**Lab Number:** L1829127**Project Number:** 170505501**Report Date:** 08/12/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1829127-01A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1829127-01B	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-01C	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-01D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1829127-01E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1829127-02A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1829127-02B	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-02C	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-02D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1829127-02E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1829127-03A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1829127-03B	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-03C	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-03D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1829127-03E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1829127-04A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1829127-04B	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-04C	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-04D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1829127-04E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1829127-05A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1829127-05B	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-05C	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)

Project Name: 4650 BROADWAY

Lab Number: L1829127

Project Number: 170505501

Report Date: 08/12/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1829127-05D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1829127-05E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1829127-06A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1829127-06B	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-06C	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-06D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1829127-06E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1829127-07A	Vial MeOH preserved	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L1829127-07B	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	HOLD-8260HLW(14)
L1829127-07C	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	HOLD-8260HLW(14)
L1829127-07D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		HOLD-8270(14)
L1829127-07E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		HOLD-8270(14)
L1829127-08A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1829127-08B	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-08C	Vial water preserved	A	NA		2.2	Y	Absent	28-JUL-18 08:40	NYTCL-8260HLW(14)
L1829127-08D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1829127-08E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14)
L1829127-09A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),TS(7)
L1829127-10A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L1829127-10B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L1829127-11A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L1829127-11B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L1829127-11C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L1829127-11D	Amber 250ml unpreserved	A	7	7	2.2	Y	Absent		NYTCL-8270-LVI(7)
L1829127-11E	Amber 250ml unpreserved	A	7	7	2.2	Y	Absent		NYTCL-8270-LVI(7)

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829127
Report Date: 08/12/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 2		Date Rec'd in Lab 7/27/18		ALPHA Job # 1829127		
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: 4650 Broadway Project Location: 4650 Broadway NY, NY Project # 170505501		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #
Client Information Client: LANGAN Address: 360 W. 31st St. 8FL NY, NY Phone: 212 479 5400 Fax: 212 479 5444 Email: jleving@langan.com		(Use Project name as Project #) <input type="checkbox"/> Project Manager: Mia Leng ALPHAQuote #:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use TCL <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:				
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Total Bottles		
Please specify Metals or TAL.		ANALYSIS Table Headers:		ANALYSIS Table Data:		ANALYSIS Table Data:				
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PART 315/TCL		PART 315/TCL		Sample Specific Comments
		Date	Time							
29127-01	RSB16-13-14	7/27/18	09:04	S	DP	X	X			
02	RSB17-7-8	7/27/18	11:05	S	DP	X	X			
03	RSB17-8-9	7/27/18	11:00	S	DP	X	X			
04	RSB19-7-8	7/27/18	12:10	S	DP	X	X			
05	RSB19-8-9	7/27/18	12:01	S	DP	X	X			
06	RSB18-4-6	7/27/18	13:35	S	DP	X	X			
07	RSB18-8-9	7/27/18	13:30	S	DP	X	X			on hold
08	RSBDUPO3-072718	7/27/18		S	DP	X	X			
09	RSB13-E1-7-8	7/27/18	1414	S	DP		X			
10	RSBTB05-072718	7/27/18	1425	AQ	DP	X				
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)		
		Relinquished By:		Date/Time		Received By:		Date/Time		
		[Signature]		7/27/18 1500		B/B ASL		7/27-18-15:00		
		[Signature]		7/27-18-17:38		[Signature]		7/27/18 17:40		
		[Signature]		7/27/18 2340		[Signature]		7/27/18 23:40		

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 2 of 2	Date Rec'd in Lab 7/27/18	ALPHA Job # L1529127	
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: 4650 Broadway Project Location: 4650 Broadway NY, NY Project # 170505501 (Use Project name as Project #) <input type="checkbox"/>			
Client Information Client: LANGAN Address: 360 W. 31st St 8FL NY, NY Phone: 212.479.5400 Fax: 212.479.5444 Email: jleung@langan.com		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #		
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other TCL <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		
Please specify Metals or TAL.		ANALYSIS Table Headers: Date, Time, Matrix, Initials		ANALYSIS Table Body (with handwritten notes: Part 375/TCL via, Part 375/TCL)		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
29127-11	R5BFB03_072718	7/27/18	14:41	AQ	DP	X X
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
Container Type Preservative		Relinquished By: [Signature] Date/Time: 7/27/18 15:00		Received By: [Signature] Date/Time: 7/27/18 15:00		
Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: [Signature] Date/Time: 7/27/18 17:38		Received By: [Signature] Date/Time: 7/27/18 17:40		



ANALYTICAL REPORT

Lab Number:	L1829309
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	08/06/18

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), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1829309-01	RSB20_4-6	SOIL	4650 BROADWAY, NEW YORK, NY	07/30/18 08:51	07/30/18
L1829309-02	RSB22_8-9	SOIL	4650 BROADWAY, NEW YORK, NY	07/30/18 09:55	07/30/18
L1829309-03	RSB22_10-12	SOIL	4650 BROADWAY, NEW YORK, NY	07/30/18 09:50	07/30/18
L1829309-04	RSB20_7-9	SOIL	4650 BROADWAY, NEW YORK, NY	07/30/18 09:03	07/30/18
L1829309-05	RSB21_11-12	SOIL	4650 BROADWAY, NEW YORK, NY	07/30/18 11:49	07/30/18
L1829309-06	RSB21_8-9	SOIL	4650 BROADWAY, NEW YORK, NY	07/30/18 11:53	07/30/18
L1829309-07	RSBTB06_073018	WATER	4650 BROADWAY, NEW YORK, NY	07/30/18 00:00	07/30/18
L1829309-08	RSBFB05_073018	WATER	4650 BROADWAY, NEW YORK, NY	07/30/18 12:41	07/30/18
L1829309-09	RSB27_9-10	SOIL	4650 BROADWAY, NEW YORK, NY	07/30/18 13:20	07/30/18
L1829309-10	RSB27_11-12	SOIL	4650 BROADWAY, NEW YORK, NY	07/30/18 13:15	07/30/18
L1829309-11	RSB28_6-7	SOIL	4650 BROADWAY, NEW YORK, NY	07/30/18 13:38	07/30/18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

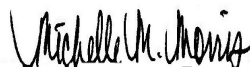
The WG1141554-4/-5 MS/MSD recoveries, performed on L1829309-01, are below the acceptance criteria for benzoic acid (0%/0%) due to the concentration of this compound falling below the reported detection limit.

Total Organic Carbon

The WG1143281-3 Laboratory Duplicate RPD for total organic carbon (rep1) (31%), performed on L1829309-04, is outside the acceptance criteria of 25%. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 08/06/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-01
 Client ID: RSB20_4-6
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 08:51
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/03/18 20:03
 Analyst: MKS
 Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2.7	1.2	1
1,1-Dichloroethane	ND		ug/kg	0.55	0.08	1
Chloroform	ND		ug/kg	0.82	0.08	1
Carbon tetrachloride	ND		ug/kg	0.55	0.13	1
1,2-Dichloropropane	ND		ug/kg	0.55	0.07	1
Dibromochloromethane	ND		ug/kg	0.55	0.08	1
1,1,2-Trichloroethane	ND		ug/kg	0.55	0.15	1
Tetrachloroethene	ND		ug/kg	0.27	0.11	1
Chlorobenzene	ND		ug/kg	0.27	0.07	1
Trichlorofluoromethane	ND		ug/kg	2.2	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.55	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	0.27	0.09	1
Bromodichloromethane	ND		ug/kg	0.27	0.06	1
trans-1,3-Dichloropropene	ND		ug/kg	0.55	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	0.27	0.09	1
1,3-Dichloropropene, Total	ND		ug/kg	0.27	0.09	1
1,1-Dichloropropene	ND		ug/kg	0.27	0.09	1
Bromoform	ND		ug/kg	2.2	0.14	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.27	0.09	1
Benzene	ND		ug/kg	0.27	0.09	1
Toluene	ND		ug/kg	0.55	0.30	1
Ethylbenzene	ND		ug/kg	0.55	0.08	1
Chloromethane	ND		ug/kg	2.2	0.51	1
Bromomethane	ND		ug/kg	1.1	0.32	1
Vinyl chloride	ND		ug/kg	0.55	0.18	1
Chloroethane	ND		ug/kg	1.1	0.25	1
1,1-Dichloroethene	ND		ug/kg	0.55	0.13	1
trans-1,2-Dichloroethene	ND		ug/kg	0.82	0.08	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-01

Date Collected: 07/30/18 08:51

Client ID: RSB20_4-6

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.27	0.08	1
1,2-Dichlorobenzene	ND		ug/kg	1.1	0.08	1
1,3-Dichlorobenzene	ND		ug/kg	1.1	0.08	1
1,4-Dichlorobenzene	ND		ug/kg	1.1	0.09	1
Methyl tert butyl ether	ND		ug/kg	1.1	0.11	1
p/m-Xylene	ND		ug/kg	1.1	0.31	1
o-Xylene	ND		ug/kg	0.55	0.16	1
Xylenes, Total	ND		ug/kg	0.55	0.16	1
cis-1,2-Dichloroethene	ND		ug/kg	0.55	0.10	1
1,2-Dichloroethene, Total	ND		ug/kg	0.55	0.08	1
Dibromomethane	ND		ug/kg	1.1	0.13	1
Styrene	ND		ug/kg	0.55	0.11	1
Dichlorodifluoromethane	ND		ug/kg	5.5	0.50	1
Acetone	6.1		ug/kg	5.5	2.6	1
Carbon disulfide	ND		ug/kg	5.5	2.5	1
2-Butanone	ND		ug/kg	5.5	1.2	1
Vinyl acetate	ND		ug/kg	5.5	1.2	1
4-Methyl-2-pentanone	ND		ug/kg	5.5	0.70	1
1,2,3-Trichloropropane	ND		ug/kg	1.1	0.07	1
2-Hexanone	ND		ug/kg	5.5	0.65	1
Bromochloromethane	ND		ug/kg	1.1	0.11	1
2,2-Dichloropropane	ND		ug/kg	1.1	0.11	1
1,2-Dibromoethane	ND		ug/kg	0.55	0.15	1
1,3-Dichloropropane	ND		ug/kg	1.1	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.27	0.07	1
Bromobenzene	ND		ug/kg	1.1	0.08	1
n-Butylbenzene	ND		ug/kg	0.55	0.09	1
sec-Butylbenzene	ND		ug/kg	0.55	0.08	1
tert-Butylbenzene	ND		ug/kg	1.1	0.07	1
o-Chlorotoluene	ND		ug/kg	1.1	0.10	1
p-Chlorotoluene	ND		ug/kg	1.1	0.06	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.6	0.55	1
Hexachlorobutadiene	ND		ug/kg	2.2	0.09	1
Isopropylbenzene	ND		ug/kg	0.55	0.06	1
p-Isopropyltoluene	ND		ug/kg	0.55	0.06	1
Naphthalene	ND		ug/kg	2.2	0.36	1
Acrylonitrile	ND		ug/kg	2.2	0.63	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-01

Date Collected: 07/30/18 08:51

Client ID: RSB20_4-6

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.55	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.1	0.15	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.1	0.11	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.1	0.18	1
1,4-Dioxane	ND		ug/kg	55	19.	1
p-Diethylbenzene	ND		ug/kg	1.1	0.10	1
p-Ethyltoluene	ND		ug/kg	1.1	0.21	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.1	0.10	1
Ethyl ether	ND		ug/kg	1.1	0.19	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	2.7	0.78	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	109		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-02
 Client ID: RSB22_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:55
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/03/18 00:10
 Analyst: MV
 Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	0.22	J	ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	1.0	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-02
 Client ID: RSB22_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:55
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	0.62	J	ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	0.62	J	ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	20		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-02

Date Collected: 07/30/18 09:55

Client ID: RSB22_8-9

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	0.82	J	ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	0.46	J	ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	110	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	0.74	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	107		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-03
 Client ID: RSB22_10-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:50
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/03/18 00:36
 Analyst: MV
 Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	0.30	J	ug/kg	0.58	0.19	1
Toluene	0.91	J	ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-03
 Client ID: RSB22_10-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:50
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	1
Acetone	12		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.2	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.12	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-03

Date Collected: 07/30/18 09:50

Client ID: RSB22_10-12

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	120	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	105		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-05
 Client ID: RSB21_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:49
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/03/18 01:02
 Analyst: MV
 Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-05
 Client ID: RSB21_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:49
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	42		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-05
 Client ID: RSB21_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:49
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	110	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	108		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-06
 Client ID: RSB21_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:53
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/03/18 01:28
 Analyst: MV
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	340	150	1
1,1-Dichloroethane	ND		ug/kg	67	9.7	1
Chloroform	ND		ug/kg	100	9.4	1
Carbon tetrachloride	ND		ug/kg	67	15.	1
1,2-Dichloropropane	ND		ug/kg	67	8.4	1
Dibromochloromethane	ND		ug/kg	67	9.4	1
1,1,2-Trichloroethane	ND		ug/kg	67	18.	1
Tetrachloroethene	ND		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.5	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	67	17.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.3	1
trans-1,3-Dichloropropene	ND		ug/kg	67	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	ND		ug/kg	34	11.	1
Toluene	ND		ug/kg	67	36.	1
Ethylbenzene	250		ug/kg	67	9.5	1
Chloromethane	ND		ug/kg	270	62.	1
Bromomethane	ND		ug/kg	130	39.	1
Vinyl chloride	ND		ug/kg	67	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	67	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.2	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-06
 Client ID: RSB21_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:53
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	34	9.2	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.7	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.9	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	860		ug/kg	130	38.	1
o-Xylene	ND		ug/kg	67	20.	1
Xylenes, Total	860		ug/kg	67	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	67	12.	1
1,2-Dichloroethene, Total	ND		ug/kg	67	9.2	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	ND		ug/kg	67	13.	1
Dichlorodifluoromethane	ND		ug/kg	670	61.	1
Acetone	ND		ug/kg	670	320	1
Carbon disulfide	ND		ug/kg	670	300	1
2-Butanone	ND		ug/kg	670	150	1
Vinyl acetate	ND		ug/kg	670	140	1
4-Methyl-2-pentanone	ND		ug/kg	670	86.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.5	1
2-Hexanone	ND		ug/kg	670	79.	1
Bromochloromethane	ND		ug/kg	130	14.	1
2,2-Dichloropropane	ND		ug/kg	130	14.	1
1,2-Dibromoethane	ND		ug/kg	67	19.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	8.8	1
Bromobenzene	ND		ug/kg	130	9.7	1
n-Butylbenzene	ND		ug/kg	67	11.	1
sec-Butylbenzene	ND		ug/kg	67	9.8	1
tert-Butylbenzene	ND		ug/kg	130	7.9	1
o-Chlorotoluene	ND		ug/kg	130	13.	1
p-Chlorotoluene	ND		ug/kg	130	7.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	67.	1
Hexachlorobutadiene	ND		ug/kg	270	11.	1
Isopropylbenzene	14	J	ug/kg	67	7.3	1
p-Isopropyltoluene	ND		ug/kg	67	7.3	1
Naphthalene	110	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	77.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-06

Date Collected: 07/30/18 11:53

Client ID: RSB21_8-9

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	49	J	ug/kg	67	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	59	J	ug/kg	130	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	6700	2400	1
p-Diethylbenzene	19	J	ug/kg	130	12.	1
p-Ethyltoluene	160		ug/kg	130	26.	1
1,2,4,5-Tetramethylbenzene	23	J	ug/kg	130	13.	1
Ethyl ether	ND		ug/kg	130	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	95.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-07
 Client ID: RSBTB06_073018
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 00:00
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/31/18 21:16
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-07
 Client ID: RSBTB06_073018
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 00:00
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.1	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-07
 Client ID: RSBTB06_073018
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 00:00
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-08
 Client ID: RSBFB05_073018
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 12:41
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/31/18 21:41
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-08
 Client ID: RSBFB05_073018
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 12:41
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	2.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-08

Date Collected: 07/30/18 12:41

Client ID: RSBFB05_073018

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-09
 Client ID: RSB27_9-10
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:20
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/03/18 01:54
 Analyst: MV
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	0.29	J	ug/kg	0.50	0.16	1
Toluene	1.1		ug/kg	1.0	0.54	1
Ethylbenzene	10		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-09
 Client ID: RSB27_9-10
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:20
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	17		ug/kg	2.0	0.56	1
o-Xylene	1.2		ug/kg	1.0	0.29	1
Xylenes, Total	18		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	42		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	0.33	J	ug/kg	1.0	0.17	1
sec-Butylbenzene	0.56	J	ug/kg	1.0	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	4.2		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	0.81	J	ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-09

Date Collected: 07/30/18 13:20

Client ID: RSB27_9-10

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	4.3		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	7.8		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	11		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	100	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	7.2		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	3.4		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	91		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-10
 Client ID: RSB27_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:15
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/03/18 02:20
 Analyst: MV
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.12	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	0.84	J	ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	0.22	J	ug/kg	0.50	0.16	1
Toluene	0.68	J	ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-10
 Client ID: RSB27_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:15
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	46		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	8.6	J	ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	0.75	J	ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.64	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-10
 Client ID: RSB27_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:15
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	99	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	0.43	J	ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	105		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-11
 Client ID: RSB28_6-7
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:38
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/03/18 13:49
 Analyst: PK
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.87	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.87	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.87	0.11	1
Dibromochloromethane	ND		ug/kg	0.87	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.87	0.23	1
Tetrachloroethene	ND		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.87	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.43	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	0.21	J	ug/kg	0.43	0.14	1
Toluene	0.77	J	ug/kg	0.87	0.47	1
Ethylbenzene	ND		ug/kg	0.87	0.12	1
Chloromethane	ND		ug/kg	3.5	0.81	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	ND		ug/kg	0.87	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.87	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-11
 Client ID: RSB28_6-7
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:38
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.87	0.25	1
Xylenes, Total	ND		ug/kg	0.87	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.87	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.21	1
Styrene	ND		ug/kg	0.87	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.7	0.79	1
Acetone	26		ug/kg	8.7	4.2	1
Carbon disulfide	ND		ug/kg	8.7	3.9	1
2-Butanone	ND		ug/kg	8.7	1.9	1
Vinyl acetate	ND		ug/kg	8.7	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.7	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.7	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.87	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.43	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.87	0.14	1
sec-Butylbenzene	ND		ug/kg	0.87	0.13	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.87	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.87	0.09	1
Naphthalene	1.0	J	ug/kg	3.5	0.56	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-11

Date Collected: 07/30/18 13:38

Client ID: RSB28_6-7

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.87	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
1,4-Dioxane	ND		ug/kg	87	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.3	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	109		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/31/18 20:00
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG1141857-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/31/18 20:00
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG1141857-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 07/31/18 20:00
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG1141857-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	106		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/03/18 11:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,11 Batch: WG1142580-12					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.71	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/03/18 11:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,11 Batch: WG1142580-12					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/03/18 11:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,11 Batch: WG1142580-12					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 21:34
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03,05,09-10 Batch: WG1142580-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 21:34
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03,05,09-10 Batch: WG1142580-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 21:34
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03,05,09-10 Batch: WG1142580-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 21:34
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG1142581-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 21:34
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG1142581-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/02/18 21:34
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG1142581-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	5000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1141857-3 WG1141857-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	94		95		70-130	1		20
Chloroform	94		94		70-130	0		20
Carbon tetrachloride	83		85		63-132	2		20
1,2-Dichloropropane	95		96		70-130	1		20
Dibromochloromethane	87		89		63-130	2		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	82		85		70-130	4		20
Chlorobenzene	95		97		75-130	2		20
Trichlorofluoromethane	95		100		62-150	5		20
1,2-Dichloroethane	98		99		70-130	1		20
1,1,1-Trichloroethane	86		89		67-130	3		20
Bromodichloromethane	93		94		67-130	1		20
trans-1,3-Dichloropropene	97		97		70-130	0		20
cis-1,3-Dichloropropene	92		93		70-130	1		20
1,1-Dichloropropene	83		86		70-130	4		20
Bromoform	91		92		54-136	1		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	89		90		70-130	1		20
Toluene	93		95		70-130	2		20
Ethylbenzene	93		94		70-130	1		20
Chloromethane	88		90		64-130	2		20
Bromomethane	73		79		39-139	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1141857-3 WG1141857-4								
Vinyl chloride	91		93		55-140	2		20
Chloroethane	91		94		55-138	3		20
1,1-Dichloroethene	84		87		61-145	4		20
trans-1,2-Dichloroethene	86		87		70-130	1		20
Trichloroethene	81		84		70-130	4		20
1,2-Dichlorobenzene	97		99		70-130	2		20
1,3-Dichlorobenzene	99		99		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	85		89		63-130	5		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	89		90		70-130	1		20
Dibromomethane	92		93		70-130	1		20
1,2,3-Trichloropropane	92		96		64-130	4		20
Acrylonitrile	100		100		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	82		86		36-147	5		20
Acetone	100		100		58-148	0		20
Carbon disulfide	90		93		51-130	3		20
2-Butanone	94		88		63-138	7		20
Vinyl acetate	98		100		70-130	2		20
4-Methyl-2-pentanone	85		90		59-130	6		20
2-Hexanone	81		84		57-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1141857-3 WG1141857-4								
Bromochloromethane	95		96		70-130	1		20
2,2-Dichloropropane	92		94		63-133	2		20
1,2-Dibromoethane	92		93		70-130	1		20
1,3-Dichloropropane	97		99		70-130	2		20
1,1,1,2-Tetrachloroethane	96		96		64-130	0		20
Bromobenzene	96		95		70-130	1		20
n-Butylbenzene	95		95		53-136	0		20
sec-Butylbenzene	90		90		70-130	0		20
tert-Butylbenzene	88		89		70-130	1		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	81		84		41-144	4		20
Hexachlorobutadiene	89		86		63-130	3		20
Isopropylbenzene	90		91		70-130	1		20
p-Isopropyltoluene	90		90		70-130	0		20
Naphthalene	77		75		70-130	3		20
n-Propylbenzene	94		95		69-130	1		20
1,2,3-Trichlorobenzene	85		83		70-130	2		20
1,2,4-Trichlorobenzene	89		87		70-130	2		20
1,3,5-Trimethylbenzene	95		96		64-130	1		20
1,2,4-Trimethylbenzene	98		97		70-130	1		20
1,4-Dioxane	106		106		56-162	0		20
p-Diethylbenzene	91		90		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1141857-3 WG1141857-4								
p-Ethyltoluene	94		94		70-130	0		20
1,2,4,5-Tetramethylbenzene	92		91		70-130	1		20
Ethyl ether	95		98		59-134	3		20
trans-1,4-Dichloro-2-butene	75		81		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		107		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	104		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,11 Batch: WG1142580-10 WG1142580-11								
Methylene chloride	96		94		70-130	2		30
1,1-Dichloroethane	104		101		70-130	3		30
Chloroform	100		98		70-130	2		30
Carbon tetrachloride	105		104		70-130	1		30
1,2-Dichloropropane	101		99		70-130	2		30
Dibromochloromethane	96		99		70-130	3		30
1,1,2-Trichloroethane	98		103		70-130	5		30
Tetrachloroethene	94		93		70-130	1		30
Chlorobenzene	95		95		70-130	0		30
Trichlorofluoromethane	94		90		70-139	4		30
1,2-Dichloroethane	107		111		70-130	4		30
1,1,1-Trichloroethane	104		102		70-130	2		30
Bromodichloromethane	98		99		70-130	1		30
trans-1,3-Dichloropropene	100		102		70-130	2		30
cis-1,3-Dichloropropene	100		101		70-130	1		30
1,1-Dichloropropene	104		103		70-130	1		30
Bromoform	94		99		70-130	5		30
1,1,2,2-Tetrachloroethane	101		105		70-130	4		30
Benzene	94		95		70-130	1		30
Toluene	94		94		70-130	0		30
Ethylbenzene	97		97		70-130	0		30
Chloromethane	111		104		52-130	7		30
Bromomethane	80		77		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,11 Batch: WG1142580-10 WG1142580-11								
Vinyl chloride	100		96		67-130	4		30
Chloroethane	94		89		50-151	5		30
1,1-Dichloroethene	101		98		65-135	3		30
trans-1,2-Dichloroethene	97		94		70-130	3		30
Trichloroethene	99		98		70-130	1		30
1,2-Dichlorobenzene	94		94		70-130	0		30
1,3-Dichlorobenzene	95		95		70-130	0		30
1,4-Dichlorobenzene	94		94		70-130	0		30
Methyl tert butyl ether	100		102		66-130	2		30
p/m-Xylene	96		97		70-130	1		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	95		94		70-130	1		30
Dibromomethane	99		103		70-130	4		30
Styrene	99		100		70-130	1		30
Dichlorodifluoromethane	101		96		30-146	5		30
Acetone	136		133		54-140	2		30
Carbon disulfide	94		91		59-130	3		30
2-Butanone	123		134	Q	70-130	9		30
Vinyl acetate	108		111		70-130	3		30
4-Methyl-2-pentanone	104		111		70-130	7		30
1,2,3-Trichloropropane	101		106		68-130	5		30
2-Hexanone	114		123		70-130	8		30
Bromochloromethane	97		96		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,11 Batch: WG1142580-10 WG1142580-11								
2,2-Dichloropropane	106		102		70-130	4		30
1,2-Dibromoethane	97		102		70-130	5		30
1,3-Dichloropropane	98		101		69-130	3		30
1,1,1,2-Tetrachloroethane	96		97		70-130	1		30
Bromobenzene	90		91		70-130	1		30
n-Butylbenzene	103		103		70-130	0		30
sec-Butylbenzene	100		99		70-130	1		30
tert-Butylbenzene	96		95		70-130	1		30
o-Chlorotoluene	98		96		70-130	2		30
p-Chlorotoluene	99		99		70-130	0		30
1,2-Dibromo-3-chloropropane	99		105		68-130	6		30
Hexachlorobutadiene	90		90		67-130	0		30
Isopropylbenzene	96		96		70-130	0		30
p-Isopropyltoluene	98		98		70-130	0		30
Naphthalene	94		100		70-130	6		30
Acrylonitrile	112		119		70-130	6		30
n-Propylbenzene	99		98		70-130	1		30
1,2,3-Trichlorobenzene	94		96		70-130	2		30
1,2,4-Trichlorobenzene	93		94		70-130	1		30
1,3,5-Trimethylbenzene	98		97		70-130	1		30
1,2,4-Trimethylbenzene	98		97		70-130	1		30
1,4-Dioxane	97		107		65-136	10		30
p-Diethylbenzene	95		94		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,11 Batch: WG1142580-10 WG1142580-11								
p-Ethyltoluene	95		95		70-130	0		30
1,2,4,5-Tetramethylbenzene	95		93		70-130	2		30
Ethyl ether	94		96		67-130	2		30
trans-1,4-Dichloro-2-butene	112		116		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		116		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	108		106		70-130
Dibromofluoromethane	105		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,05,09-10 Batch: WG1142580-3 WG1142580-4								
Methylene chloride	95		93		70-130	2		30
1,1-Dichloroethane	95		92		70-130	3		30
Chloroform	93		92		70-130	1		30
Carbon tetrachloride	90		89		70-130	1		30
1,2-Dichloropropane	95		95		70-130	0		30
Dibromochloromethane	97		97		70-130	0		30
1,1,2-Trichloroethane	102		100		70-130	2		30
Tetrachloroethene	85		84		70-130	1		30
Chlorobenzene	92		89		70-130	3		30
Trichlorofluoromethane	75		74		70-139	1		30
1,2-Dichloroethane	108		107		70-130	1		30
1,1,1-Trichloroethane	92		90		70-130	2		30
Bromodichloromethane	96		96		70-130	0		30
trans-1,3-Dichloropropene	99		100		70-130	1		30
cis-1,3-Dichloropropene	96		96		70-130	0		30
1,1-Dichloropropene	90		88		70-130	2		30
Bromoform	94		97		70-130	3		30
1,1,2,2-Tetrachloroethane	104		106		70-130	2		30
Benzene	89		87		70-130	2		30
Toluene	90		88		70-130	2		30
Ethylbenzene	91		90		70-130	1		30
Chloromethane	107		100		52-130	7		30
Bromomethane	70		68		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,05,09-10 Batch: WG1142580-3 WG1142580-4								
Vinyl chloride	85		83		67-130	2		30
Chloroethane	81		80		50-151	1		30
1,1-Dichloroethene	84		84		65-135	0		30
trans-1,2-Dichloroethene	85		85		70-130	0		30
Trichloroethene	90		87		70-130	3		30
1,2-Dichlorobenzene	92		92		70-130	0		30
1,3-Dichlorobenzene	92		91		70-130	1		30
1,4-Dichlorobenzene	92		90		70-130	2		30
Methyl tert butyl ether	96		97		66-130	1		30
p/m-Xylene	91		90		70-130	1		30
o-Xylene	91		90		70-130	1		30
cis-1,2-Dichloroethene	90		88		70-130	2		30
Dibromomethane	97		97		70-130	0		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	86		85		30-146	1		30
Acetone	132		146	Q	54-140	10		30
Carbon disulfide	81		80		59-130	1		30
2-Butanone	121		123		70-130	2		30
Vinyl acetate	104		102		70-130	2		30
4-Methyl-2-pentanone	105		107		70-130	2		30
1,2,3-Trichloropropane	103		104		68-130	1		30
2-Hexanone	112		117		70-130	4		30
Bromochloromethane	95		94		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,05,09-10 Batch: WG1142580-3 WG1142580-4									
2,2-Dichloropropane	90		89		70-130	1		30	
1,2-Dibromoethane	100		98		70-130	2		30	
1,3-Dichloropropane	101		100		69-130	1		30	
1,1,1,2-Tetrachloroethane	96		94		70-130	2		30	
Bromobenzene	87		87		70-130	0		30	
n-Butylbenzene	95		94		70-130	1		30	
sec-Butylbenzene	91		91		70-130	0		30	
tert-Butylbenzene	88		88		70-130	0		30	
o-Chlorotoluene	91		92		70-130	1		30	
p-Chlorotoluene	94		93		70-130	1		30	
1,2-Dibromo-3-chloropropane	98		105		68-130	7		30	
Hexachlorobutadiene	85		84		67-130	1		30	
Isopropylbenzene	88		88		70-130	0		30	
p-Isopropyltoluene	90		90		70-130	0		30	
Naphthalene	96		99		70-130	3		30	
Acrylonitrile	112		113		70-130	1		30	
n-Propylbenzene	91		91		70-130	0		30	
1,2,3-Trichlorobenzene	95		94		70-130	1		30	
1,2,4-Trichlorobenzene	89		91		70-130	2		30	
1,3,5-Trimethylbenzene	92		92		70-130	0		30	
1,2,4-Trimethylbenzene	93		92		70-130	1		30	
1,4-Dioxane	94		96		65-136	2		30	
p-Diethylbenzene	87		87		70-130	0		30	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03,05,09-10 Batch: WG1142580-3 WG1142580-4								
p-Ethyltoluene	88		88		70-130	0		30
1,2,4,5-Tetramethylbenzene	90		90		70-130	0		30
Ethyl ether	91		90		67-130	1		30
trans-1,4-Dichloro-2-butene	111		114		70-130	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	112		113		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	107		105		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG1142581-3 WG1142581-4								
Methylene chloride	95		93		70-130	2		30
1,1-Dichloroethane	95		92		70-130	3		30
Chloroform	93		92		70-130	1		30
Carbon tetrachloride	90		89		70-130	1		30
1,2-Dichloropropane	95		95		70-130	0		30
Dibromochloromethane	97		97		70-130	0		30
1,1,2-Trichloroethane	102		100		70-130	2		30
Tetrachloroethene	85		84		70-130	1		30
Chlorobenzene	92		89		70-130	3		30
Trichlorofluoromethane	75		74		70-139	1		30
1,2-Dichloroethane	108		107		70-130	1		30
1,1,1-Trichloroethane	92		90		70-130	2		30
Bromodichloromethane	96		96		70-130	0		30
trans-1,3-Dichloropropene	99		100		70-130	1		30
cis-1,3-Dichloropropene	96		96		70-130	0		30
1,1-Dichloropropene	90		88		70-130	2		30
Bromoform	94		97		70-130	3		30
1,1,2,2-Tetrachloroethane	104		106		70-130	2		30
Benzene	89		87		70-130	2		30
Toluene	90		88		70-130	2		30
Ethylbenzene	91		90		70-130	1		30
Chloromethane	107		100		52-130	7		30
Bromomethane	70		68		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG1142581-3 WG1142581-4								
Vinyl chloride	85		83		67-130	2		30
Chloroethane	81		80		50-151	1		30
1,1-Dichloroethene	84		84		65-135	0		30
trans-1,2-Dichloroethene	85		85		70-130	0		30
Trichloroethene	90		87		70-130	3		30
1,2-Dichlorobenzene	92		92		70-130	0		30
1,3-Dichlorobenzene	92		91		70-130	1		30
1,4-Dichlorobenzene	92		90		70-130	2		30
Methyl tert butyl ether	96		97		66-130	1		30
p/m-Xylene	91		90		70-130	1		30
o-Xylene	91		90		70-130	1		30
cis-1,2-Dichloroethene	90		88		70-130	2		30
Dibromomethane	97		97		70-130	0		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	86		85		30-146	1		30
Acetone	132		146	Q	54-140	10		30
Carbon disulfide	81		80		59-130	1		30
2-Butanone	121		123		70-130	2		30
Vinyl acetate	104		102		70-130	2		30
4-Methyl-2-pentanone	105		107		70-130	2		30
1,2,3-Trichloropropane	103		104		68-130	1		30
2-Hexanone	112		117		70-130	4		30
Bromochloromethane	95		94		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG1142581-3 WG1142581-4								
2,2-Dichloropropane	90		89		70-130	1		30
1,2-Dibromoethane	100		98		70-130	2		30
1,3-Dichloropropane	101		100		69-130	1		30
1,1,1,2-Tetrachloroethane	96		94		70-130	2		30
Bromobenzene	87		87		70-130	0		30
n-Butylbenzene	95		94		70-130	1		30
sec-Butylbenzene	91		91		70-130	0		30
tert-Butylbenzene	88		88		70-130	0		30
o-Chlorotoluene	91		92		70-130	1		30
p-Chlorotoluene	94		93		70-130	1		30
1,2-Dibromo-3-chloropropane	98		105		68-130	7		30
Hexachlorobutadiene	85		84		67-130	1		30
Isopropylbenzene	88		88		70-130	0		30
p-Isopropyltoluene	90		90		70-130	0		30
Naphthalene	96		99		70-130	3		30
Acrylonitrile	112		113		70-130	1		30
n-Propylbenzene	91		91		70-130	0		30
1,2,3-Trichlorobenzene	95		94		70-130	1		30
1,2,4-Trichlorobenzene	89		91		70-130	2		30
1,3,5-Trimethylbenzene	92		92		70-130	0		30
1,2,4-Trimethylbenzene	93		92		70-130	1		30
1,4-Dioxane	94		96		65-136	2		30
p-Diethylbenzene	87		87		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG1142581-3 WG1142581-4								
p-Ethyltoluene	88		88		70-130	0		30
1,2,4,5-Tetramethylbenzene	90		90		70-130	0		30
Ethyl ether	91		90		67-130	1		30
trans-1,4-Dichloro-2-butene	111		114		70-130	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	112		113		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	101		102		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03,05,09-11 QC Batch ID: WG1142580-6 WG1142580-7 QC Sample: L1829309-01 Client ID: RSB20_4-6												
Methylene chloride	ND	114	98	86		100	90		70-130	3		30
1,1-Dichloroethane	ND	114	110	93		110	101		70-130	7		30
Chloroform	ND	114	100	88		110	95		70-130	6		30
Carbon tetrachloride	ND	114	110	93		120	103		70-130	8		30
1,2-Dichloropropane	ND	114	110	93		110	98		70-130	4		30
Dibromochloromethane	ND	114	100	90		110	98		70-130	7		30
1,1,2-Trichloroethane	ND	114	110	93		110	100		70-130	6		30
Tetrachloroethene	ND	114	77	67	Q	80	71		70-130	4		30
Chlorobenzene	ND	114	82	71		81	72		70-130	1		30
Trichlorofluoromethane	ND	114	100	90		110	99		70-139	7		30
1,2-Dichloroethane	ND	114	120	100		120	106		70-130	3		30
1,1,1-Trichloroethane	ND	114	110	93		120	102		70-130	7		30
Bromodichloromethane	ND	114	110	95		110	98		70-130	1		30
trans-1,3-Dichloropropene	ND	114	100	90		110	97		70-130	6		30
cis-1,3-Dichloropropene	ND	114	100	91		110	95		70-130	3		30
1,1-Dichloropropene	ND	114	100	90		110	98		70-130	7		30
Bromoform	ND	114	100	90		110	96		70-130	5		30
1,1,2,2-Tetrachloroethane	ND	114	110	94		110	98		70-130	2		30
Benzene	ND	114	96	84		100	89		70-130	4		30
Toluene	ND	114	85	74		90	80		70-130	6		30
Ethylbenzene	ND	114	82	71		80	71		70-130	2		30
Chloromethane	ND	114	110	96		120	107		52-130	9		30
Bromomethane	ND	114	82	71		86	76		57-147	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03,05,09-11 QC Batch ID: WG1142580-6 WG1142580-7 QC Sample: L1829309-01 Client ID: RSB20_4-6												
Vinyl chloride	ND	114	100	90		120	105		67-130	14		30
Chloroethane	ND	114	100	91		110	99		50-151	7		30
1,1-Dichloroethene	ND	114	110	93		120	102		65-135	8		30
trans-1,2-Dichloroethene	ND	114	96	84		100	90		70-130	5		30
Trichloroethene	ND	114	95	83		100	88		70-130	5		30
1,2-Dichlorobenzene	ND	114	75	65	Q	74	65	Q	70-130	2		30
1,3-Dichlorobenzene	ND	114	68	60	Q	65	58	Q	70-130	4		30
1,4-Dichlorobenzene	ND	114	66	58	Q	64	57	Q	70-130	3		30
Methyl tert butyl ether	ND	114	110	97		120	103		66-130	4		30
p/m-Xylene	ND	229	160	68	Q	150	68	Q	70-130	3		30
o-Xylene	ND	229	170	72		160	71		70-130	4		30
cis-1,2-Dichloroethene	ND	114	96	84		100	90		70-130	5		30
Dibromomethane	ND	114	110	93		110	96		70-130	2		30
Styrene	ND	229	180	77		170	77		70-130	2		30
Dichlorodifluoromethane	ND	114	110	98		130	114		30-146	13		30
Acetone	6.1	114	170	143	Q	200	170	Q	54-140	15		30
Carbon disulfide	ND	114	94	82		99	88		59-130	5		30
2-Butanone	ND	114	130	114		140	122		70-130	5		30
Vinyl acetate	ND	114	92	80		84	74		70-130	9		30
4-Methyl-2-pentanone	ND	114	130	109		140	122		70-130	10		30
1,2,3-Trichloropropane	ND	114	110	93		110	98		68-130	3		30
2-Hexanone	ND	114	130	117		140	126		70-130	6		30
Bromochloromethane	ND	114	100	89		100	92		70-130	1		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03,05,09-11 QC Batch ID: WG1142580-6 WG1142580-7 QC Sample: L1829309-01 Client ID: RSB20_4-6												
2,2-Dichloropropane	ND	114	100	90		120	102		70-130	11		30
1,2-Dibromoethane	ND	114	100	89		110	97		70-130	7		30
1,3-Dichloropropane	ND	114	100	90		110	97		69-130	6		30
1,1,1,2-Tetrachloroethane	ND	114	97	84		97	86		70-130	0		30
Bromobenzene	ND	114	75	66	Q	75	67	Q	70-130	0		30
n-Butylbenzene	ND	114	60	53	Q	53	47	Q	70-130	13		30
sec-Butylbenzene	ND	114	69	60	Q	64	57	Q	70-130	8		30
tert-Butylbenzene	ND	114	73	63	Q	69	62	Q	70-130	5		30
o-Chlorotoluene	ND	114	72	63	Q	71	63	Q	70-130	2		30
p-Chlorotoluene	ND	114	71	62	Q	68	60	Q	70-130	5		30
1,2-Dibromo-3-chloropropane	ND	114	110	97		120	104		68-130	5		30
Hexachlorobutadiene	ND	114	51	44	Q	44	39	Q	67-130	13		30
Isopropylbenzene	ND	114	75	66	Q	73	65	Q	70-130	3		30
p-Isopropyltoluene	ND	114	65	57	Q	59	52	Q	70-130	10		30
Naphthalene	ND	114	92	80		95	85		70-130	4		30
Acrylonitrile	ND	114	120	108		130	116		70-130	5		30
n-Propylbenzene	ND	114	69	60	Q	65	58	Q	70-130	6		30
1,2,3-Trichlorobenzene	ND	114	71	62	Q	71	63	Q	70-130	0		30
1,2,4-Trichlorobenzene	ND	114	64	56	Q	62	55	Q	70-130	3		30
1,3,5-Trimethylbenzene	ND	114	71	62	Q	67	60	Q	70-130	6		30
1,2,4-Trimethylbenzene	ND	114	71	62	Q	67	60	Q	70-130	6		30
1,4-Dioxane	ND	5720	5900	102		7000	125		65-136	18		30
p-Diethylbenzene	ND	114	58	51	Q	52	46	Q	70-130	11		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03,05,09-11 QC Batch ID: WG1142580-6 WG1142580-7 QC Sample: L1829309-01 Client ID: RSB20_4-6												
p-Ethyltoluene	ND	114	65	57	Q	61	54	Q	70-130	7		30
1,2,4,5-Tetramethylbenzene	ND	114	66	58	Q	63	56	Q	70-130	5		30
Ethyl ether	ND	114	100	88		100	91		67-130	1		30
trans-1,4-Dichloro-2-butene	ND	114	120	101		120	107		70-130	4		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		117		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	104		102		70-130
Toluene-d8	99		103		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-01
 Client ID: RSB20_4-6
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 08:51
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/02/18 23:58
 Analyst: CB
 Percent Solids: 76%

Extraction Method: EPA 3546
 Extraction Date: 08/01/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-01

Date Collected: 07/30/18 08:51

Client ID: RSB20_4-6

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-01

Date Collected: 07/30/18 08:51

Client ID: RSB20_4-6

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	82		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-02
 Client ID: RSB22_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:55
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/03/18 00:23
 Analyst: CB
 Percent Solids: 76%

Extraction Method: EPA 3546
 Extraction Date: 08/01/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-02
 Client ID: RSB22_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:55
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	55	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-02

Date Collected: 07/30/18 09:55

Client ID: RSB22_8-9

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	95		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	72		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-03
 Client ID: RSB22_10-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:50
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/03/18 00:48
 Analyst: CB
 Percent Solids: 72%

Extraction Method: EPA 3546
 Extraction Date: 08/01/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Hexachlorobenzene	ND		ug/kg	140	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	31.	1
2-Chloronaphthalene	ND		ug/kg	230	23.	1
1,2-Dichlorobenzene	ND		ug/kg	230	41.	1
1,3-Dichlorobenzene	ND		ug/kg	230	39.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	61.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	ND		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Hexachlorobutadiene	ND		ug/kg	230	34.	1
Hexachlorocyclopentadiene	ND		ug/kg	660	210	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	210	30.	1
Naphthalene	ND		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	210	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	79.	1
Butyl benzyl phthalate	ND		ug/kg	230	58.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	78.	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-03
 Client ID: RSB22_10-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:50
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	ND		ug/kg	140	26.	1
Benzo(a)pyrene	ND		ug/kg	180	56.	1
Benzo(b)fluoranthene	ND		ug/kg	140	39.	1
Benzo(k)fluoranthene	ND		ug/kg	140	37.	1
Chrysene	ND		ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	140	45.	1
Benzo(ghi)perylene	ND		ug/kg	180	27.	1
Fluorene	ND		ug/kg	230	22.	1
Phenanthrene	ND		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	32.	1
Pyrene	ND		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	520	53.	1
4-Chloroaniline	ND		ug/kg	230	42.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	95.	1
Dibenzofuran	ND		ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	280	28.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	210	37.	1
2,4-Dimethylphenol	ND		ug/kg	230	76.	1
2-Nitrophenol	ND		ug/kg	500	86.	1
4-Nitrophenol	ND		ug/kg	320	94.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	600	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	230	35.	1
2-Methylphenol	ND		ug/kg	230	36.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	330	36.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-03

Date Collected: 07/30/18 09:50

Client ID: RSB22_10-12

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	230	44.	1
Benzoic Acid	ND		ug/kg	740	230	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	ND		ug/kg	230	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	73		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-05
 Client ID: RSB21_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:49
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/03/18 02:30
 Analyst: CB
 Percent Solids: 71%

Extraction Method: EPA 3546
 Extraction Date: 08/01/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	190	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	27.	1
Hexachlorobenzene	ND		ug/kg	140	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	32.	1
2-Chloronaphthalene	ND		ug/kg	230	23.	1
1,2-Dichlorobenzene	ND		ug/kg	230	42.	1
1,3-Dichlorobenzene	ND		ug/kg	230	40.	1
1,4-Dichlorobenzene	ND		ug/kg	230	41.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	62.	1
2,4-Dinitrotoluene	ND		ug/kg	230	47.	1
2,6-Dinitrotoluene	ND		ug/kg	230	40.	1
Fluoranthene	ND		ug/kg	140	27.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	25.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	36.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	40.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Hexachlorobutadiene	ND		ug/kg	230	34.	1
Hexachlorocyclopentadiene	ND		ug/kg	670	210	1
Hexachloroethane	ND		ug/kg	190	38.	1
Isophorone	ND		ug/kg	210	30.	1
Naphthalene	ND		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	210	34.	1
NDPA/DPA	ND		ug/kg	190	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	36.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	81.	1
Butyl benzyl phthalate	ND		ug/kg	230	59.	1
Di-n-butylphthalate	ND		ug/kg	230	44.	1
Di-n-octylphthalate	ND		ug/kg	230	79.	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-05
 Client ID: RSB21_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:49
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	22.	1
Dimethyl phthalate	ND		ug/kg	230	49.	1
Benzo(a)anthracene	ND		ug/kg	140	26.	1
Benzo(a)pyrene	ND		ug/kg	190	57.	1
Benzo(b)fluoranthene	ND		ug/kg	140	39.	1
Benzo(k)fluoranthene	ND		ug/kg	140	37.	1
Chrysene	ND		ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	190	36.	1
Anthracene	ND		ug/kg	140	46.	1
Benzo(ghi)perylene	ND		ug/kg	190	27.	1
Fluorene	ND		ug/kg	230	23.	1
Phenanthrene	ND		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	27.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	190	32.	1
Pyrene	ND		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	530	54.	1
4-Chloroaniline	ND		ug/kg	230	42.	1
2-Nitroaniline	ND		ug/kg	230	45.	1
3-Nitroaniline	ND		ug/kg	230	44.	1
4-Nitroaniline	ND		ug/kg	230	97.	1
Dibenzofuran	ND		ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	280	28.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	29.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	44.	1
p-Chloro-m-cresol	ND		ug/kg	230	35.	1
2-Chlorophenol	ND		ug/kg	230	28.	1
2,4-Dichlorophenol	ND		ug/kg	210	38.	1
2,4-Dimethylphenol	ND		ug/kg	230	77.	1
2-Nitrophenol	ND		ug/kg	500	88.	1
4-Nitrophenol	ND		ug/kg	330	95.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	610	110	1
Pentachlorophenol	ND		ug/kg	190	51.	1
Phenol	ND		ug/kg	230	35.	1
2-Methylphenol	ND		ug/kg	230	36.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	340	36.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-05

Date Collected: 07/30/18 11:49

Client ID: RSB21_11-12

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	230	45.	1
Benzoic Acid	ND		ug/kg	760	240	1
Benzyl Alcohol	ND		ug/kg	230	71.	1
Carbazole	ND		ug/kg	230	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	52		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-06
 Client ID: RSB21_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:53
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/03/18 01:39
 Analyst: CB
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 08/01/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	60	J	ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-06
 Client ID: RSB21_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:53
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	34	J	ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-06

Date Collected: 07/30/18 11:53

Client ID: RSB21_8-9

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	690	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	63		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-08
 Client ID: RSBFB05_073018
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 12:41
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 08/06/18 11:47
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/02/18 23:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-08
 Client ID: RSBFB05_073018
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 12:41
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	107		41-149

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-08
 Client ID: RSBFB05_073018
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 12:41
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/06/18 00:30
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/04/18 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-08

Date Collected: 07/30/18 12:41

Client ID: RSBFB05_073018

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	68		41-149

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-09
 Client ID: RSB27_9-10
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:20
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/03/18 02:05
 Analyst: CB
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 08/01/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-09
 Client ID: RSB27_9-10
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:20
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-09

Date Collected: 07/30/18 13:20

Client ID: RSB27_9-10

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	67		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-10
 Client ID: RSB27_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:15
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/03/18 02:55
 Analyst: CB
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 08/01/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-10
 Client ID: RSB27_11-12
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:15
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-10

Date Collected: 07/30/18 13:15

Client ID: RSB27_11-12

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	45		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-11
 Client ID: RSB28_6-7
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:38
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/03/18 04:12
 Analyst: CB
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 08/01/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	38	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	1200		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	63	J	ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-11

Date Collected: 07/30/18 13:38

Client ID: RSB28_6-7

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	430		ug/kg	120	22.	1
Benzo(a)pyrene	450		ug/kg	150	47.	1
Benzo(b)fluoranthene	620		ug/kg	120	33.	1
Benzo(k)fluoranthene	220		ug/kg	120	31.	1
Chrysene	560		ug/kg	120	20.	1
Acenaphthylene	120	J	ug/kg	150	30.	1
Anthracene	120		ug/kg	120	38.	1
Benzo(ghi)perylene	310		ug/kg	150	23.	1
Fluorene	97	J	ug/kg	190	19.	1
Phenanthrene	1200		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	74	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	310		ug/kg	150	27.	1
Pyrene	1000		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	94	J	ug/kg	190	18.	1
2-Methylnaphthalene	40	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-11

Date Collected: 07/30/18 13:38

Client ID: RSB28_6-7

Date Received: 07/30/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	150	J	ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	68		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/01/18 08:47
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/01/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05-06,09-11 Batch: WG1141554-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/01/18 08:47
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/01/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05-06,09-11 Batch: WG1141554-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/01/18 08:47
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/01/18 01:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05-06,09-11 Batch: WG1141554-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	88		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/06/18 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/02/18 23:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1142471-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/06/18 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/02/18 23:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1142471-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/06/18 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/02/18 23:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1142471-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Tentatively Identified Compounds

Total TIC Compounds	71.3	J	ug/l
Aldol Condensates	68.3	J	ug/l
Unknown	1.45	J	ug/l
Unknown Organic Acid	1.56	J	ug/l

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/06/18 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/02/18 23:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1142471-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		21-120
Phenol-d6	66		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	103		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/05/18 18:25
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/03/18 20:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 08 Batch: WG1142828-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/05/18 18:25
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/03/18 20:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 08 Batch: WG1142828-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	94		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06,09-11 Batch: WG1141554-2 WG1141554-3								
Acenaphthene	84		75		31-137	11		50
1,2,4-Trichlorobenzene	77		68		38-107	12		50
Hexachlorobenzene	82		74		40-140	10		50
Bis(2-chloroethyl)ether	76		66		40-140	14		50
2-Chloronaphthalene	82		72		40-140	13		50
1,2-Dichlorobenzene	79		69		40-140	14		50
1,3-Dichlorobenzene	76		68		40-140	11		50
1,4-Dichlorobenzene	76		68		28-104	11		50
3,3'-Dichlorobenzidine	66		55		40-140	18		50
2,4-Dinitrotoluene	83		75		40-132	10		50
2,6-Dinitrotoluene	81		70		40-140	15		50
Fluoranthene	86		76		40-140	12		50
4-Chlorophenyl phenyl ether	82		73		40-140	12		50
4-Bromophenyl phenyl ether	80		70		40-140	13		50
Bis(2-chloroisopropyl)ether	82		74		40-140	10		50
Bis(2-chloroethoxy)methane	77		67		40-117	14		50
Hexachlorobutadiene	74		64		40-140	14		50
Hexachlorocyclopentadiene	67		58		40-140	14		50
Hexachloroethane	74		66		40-140	11		50
Isophorone	78		68		40-140	14		50
Naphthalene	81		72		40-140	12		50
Nitrobenzene	75		65		40-140	14		50
NDPA/DPA	85		76		36-157	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06,09-11 Batch: WG1141554-2 WG1141554-3								
n-Nitrosodi-n-propylamine	78		66		32-121	17		50
Bis(2-ethylhexyl)phthalate	97		85		40-140	13		50
Butyl benzyl phthalate	92		81		40-140	13		50
Di-n-butylphthalate	90		79		40-140	13		50
Di-n-octylphthalate	98		86		40-140	13		50
Diethyl phthalate	86		77		40-140	11		50
Dimethyl phthalate	85		73		40-140	15		50
Benzo(a)anthracene	84		75		40-140	11		50
Benzo(a)pyrene	88		77		40-140	13		50
Benzo(b)fluoranthene	86		77		40-140	11		50
Benzo(k)fluoranthene	89		79		40-140	12		50
Chrysene	83		73		40-140	13		50
Acenaphthylene	85		73		40-140	15		50
Anthracene	86		78		40-140	10		50
Benzo(ghi)perylene	88		78		40-140	12		50
Fluorene	86		76		40-140	12		50
Phenanthrene	85		76		40-140	11		50
Dibenzo(a,h)anthracene	88		76		40-140	15		50
Indeno(1,2,3-cd)pyrene	89		78		40-140	13		50
Pyrene	86		76		35-142	12		50
Biphenyl	87		75		54-104	15		50
4-Chloroaniline	69		57		40-140	19		50
2-Nitroaniline	85		73		47-134	15		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06,09-11 Batch: WG1141554-2 WG1141554-3								
3-Nitroaniline	72		64		26-129	12		50
4-Nitroaniline	90		79		41-125	13		50
Dibenzofuran	85		77		40-140	10		50
2-Methylnaphthalene	80		70		40-140	13		50
1,2,4,5-Tetrachlorobenzene	78		68		40-117	14		50
Acetophenone	83		73		14-144	13		50
2,4,6-Trichlorophenol	85		73		30-130	15		50
p-Chloro-m-cresol	87		75		26-103	15		50
2-Chlorophenol	85		74		25-102	14		50
2,4-Dichlorophenol	88		76		30-130	15		50
2,4-Dimethylphenol	90		78		30-130	14		50
2-Nitrophenol	77		67		30-130	14		50
4-Nitrophenol	86		76		11-114	12		50
2,4-Dinitrophenol	69		60		4-130	14		50
4,6-Dinitro-o-cresol	74		67		10-130	10		50
Pentachlorophenol	80		72		17-109	11		50
Phenol	87		75		26-90	15		50
2-Methylphenol	89		77		30-130.	14		50
3-Methylphenol/4-Methylphenol	93		81		30-130	14		50
2,4,5-Trichlorophenol	83		71		30-130	16		50
Benzoic Acid	54		42		10-110	25		50
Benzyl Alcohol	84		75		40-140	11		50
Carbazole	89		78		54-128	13		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06,09-11 Batch: WG1141554-2 WG1141554-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
2-Fluorophenol	84		73		25-120
Phenol-d6	87		76		10-120
Nitrobenzene-d5	77		67		23-120
2-Fluorobiphenyl	82		72		30-120
2,4,6-Tribromophenol	89		78		10-136
4-Terphenyl-d14	92		76		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1142471-2 WG1142471-3								
Acenaphthene	96		93		37-111	3		30
1,2,4-Trichlorobenzene	79		79		39-98	0		30
Hexachlorobenzene	91		88		40-140	3		30
Bis(2-chloroethyl)ether	86		84		40-140	2		30
2-Chloronaphthalene	90		89		40-140	1		30
1,2-Dichlorobenzene	79		77		40-140	3		30
1,3-Dichlorobenzene	77		76		40-140	1		30
1,4-Dichlorobenzene	76		76		36-97	0		30
3,3'-Dichlorobenzidine	73		75		40-140	3		30
2,4-Dinitrotoluene	95		93		48-143	2		30
2,6-Dinitrotoluene	96		93		40-140	3		30
Fluoranthene	96		88		40-140	9		30
4-Chlorophenyl phenyl ether	92		91		40-140	1		30
4-Bromophenyl phenyl ether	90		89		40-140	1		30
Bis(2-chloroisopropyl)ether	82		80		40-140	2		30
Bis(2-chloroethoxy)methane	87		85		40-140	2		30
Hexachlorobutadiene	78		82		40-140	5		30
Hexachlorocyclopentadiene	74		78		40-140	5		30
Hexachloroethane	73		74		40-140	1		30
Isophorone	86		83		40-140	4		30
Naphthalene	86		88		40-140	2		30
Nitrobenzene	85		83		40-140	2		30
NDPA/DPA	93		93		40-140	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1142471-2 WG1142471-3								
n-Nitrosodi-n-propylamine	88		88		29-132	0		30
Bis(2-ethylhexyl)phthalate	93		90		40-140	3		30
Butyl benzyl phthalate	88		81		40-140	8		30
Di-n-butylphthalate	90		86		40-140	5		30
Di-n-octylphthalate	89		84		40-140	6		30
Diethyl phthalate	93		91		40-140	2		30
Dimethyl phthalate	92		91		40-140	1		30
Benzo(a)anthracene	90		88		40-140	2		30
Benzo(a)pyrene	101		98		40-140	3		30
Benzo(b)fluoranthene	107		89		40-140	18		30
Benzo(k)fluoranthene	95		97		40-140	2		30
Chrysene	93		90		40-140	3		30
Acenaphthylene	90		91		45-123	1		30
Anthracene	94		92		40-140	2		30
Benzo(ghi)perylene	103		98		40-140	5		30
Fluorene	96		94		40-140	2		30
Phenanthrene	92		90		40-140	2		30
Dibenzo(a,h)anthracene	103		99		40-140	4		30
Indeno(1,2,3-cd)pyrene	101		100		40-140	1		30
Pyrene	92		87		26-127	6		30
Biphenyl	91		89		40-140	2		30
4-Chloroaniline	63		68		40-140	8		30
2-Nitroaniline	89		89		52-143	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1142471-2 WG1142471-3								
3-Nitroaniline	83		82		25-145	1		30
4-Nitroaniline	86		83		51-143	4		30
Dibenzofuran	93		91		40-140	2		30
2-Methylnaphthalene	87		85		40-140	2		30
1,2,4,5-Tetrachlorobenzene	85		85		2-134	0		30
Acetophenone	86		82		39-129	5		30
2,4,6-Trichlorophenol	94		89		30-130	5		30
p-Chloro-m-cresol	93		89		23-97	4		30
2-Chlorophenol	86		85		27-123	1		30
2,4-Dichlorophenol	92		90		30-130	2		30
2,4-Dimethylphenol	65		65		30-130	0		30
2-Nitrophenol	92		90		30-130	2		30
4-Nitrophenol	76		71		10-80	7		30
2,4-Dinitrophenol	90		90		20-130	0		30
4,6-Dinitro-o-cresol	86		86		20-164	0		30
Pentachlorophenol	83		80		9-103	4		30
Phenol	66		63		12-110	5		30
2-Methylphenol	84		81		30-130	4		30
3-Methylphenol/4-Methylphenol	83		82		30-130	1		30
2,4,5-Trichlorophenol	97		90		30-130	7		30
Benzoic Acid	95		80		10-164	17		30
Benzyl Alcohol	76		74		26-116	3		30
Carbazole	96		90		55-144	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1142471-2 WG1142471-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	74		75		21-120
Phenol-d6	66		65		10-120
Nitrobenzene-d5	89		88		23-120
2-Fluorobiphenyl	97		95		15-120
2,4,6-Tribromophenol	91		94		10-120
4-Terphenyl-d14	111		102		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 08 Batch: WG1142828-2 WG1142828-3								
Acenaphthene	94		97		40-140	3		40
2-Chloronaphthalene	81		88		40-140	8		40
Fluoranthene	90		91		40-140	1		40
Hexachlorobutadiene	80		82		40-140	2		40
Naphthalene	83		83		40-140	0		40
Benzo(a)anthracene	92		95		40-140	3		40
Benzo(a)pyrene	86		89		40-140	3		40
Benzo(b)fluoranthene	81		85		40-140	5		40
Benzo(k)fluoranthene	90		94		40-140	4		40
Chrysene	90		93		40-140	3		40
Acenaphthylene	94		97		40-140	3		40
Anthracene	94		95		40-140	1		40
Benzo(ghi)perylene	93		96		40-140	3		40
Fluorene	96		99		40-140	3		40
Phenanthrene	89		92		40-140	3		40
Dibenzo(a,h)anthracene	90		94		40-140	4		40
Indeno(1,2,3-cd)pyrene	85		88		40-140	3		40
Pyrene	88		90		40-140	2		40
2-Methylnaphthalene	86		87		40-140	1		40
Pentachlorophenol	96		98		40-140	2		40
Hexachlorobenzene	85		88		40-140	3		40
Hexachloroethane	82		83		40-140	1		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 08 Batch: WG1142828-2 WG1142828-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
2-Fluorophenol	65		65		21-120
Phenol-d6	57		56		10-120
Nitrobenzene-d5	84		85		23-120
2-Fluorobiphenyl	82		85		15-120
2,4,6-Tribromophenol	87		90		10-120
4-Terphenyl-d14	84		86		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06,09-11 QC Batch ID: WG1141554-4 WG1141554-5 QC Sample: L1829309-01 Client ID: RSB20_4-6												
Acenaphthene	ND	1760	1500	85		1500	86		31-137	0		50
1,2,4-Trichlorobenzene	ND	1760	1400	80		1400	80		38-107	0		50
Hexachlorobenzene	ND	1760	1500	85		1500	86		40-140	0		50
Bis(2-chloroethyl)ether	ND	1760	1500	85		1500	86		40-140	0		50
2-Chloronaphthalene	ND	1760	1400	80		1500	86		40-140	7		50
1,2-Dichlorobenzene	ND	1760	1400	80		1400	80		40-140	0		50
1,3-Dichlorobenzene	ND	1760	1400	80		1400	80		40-140	0		50
1,4-Dichlorobenzene	ND	1760	1400	80		1400	80		28-104	0		50
3,3'-Dichlorobenzidine	ND	1760	1000	57		1000	57		40-140	0		50
2,4-Dinitrotoluene	ND	1760	1500	85		1500	86		40-132	0		50
2,6-Dinitrotoluene	ND	1760	1500	85		1400	80		40-140	7		50
Fluoranthene	ND	1760	1400	80		1400	80		40-140	0		50
4-Chlorophenyl phenyl ether	ND	1760	1400	80		1400	80		40-140	0		50
4-Bromophenyl phenyl ether	ND	1760	1400	80		1400	80		40-140	0		50
Bis(2-chloroisopropyl)ether	ND	1760	1500	85		1500	86		40-140	0		50
Bis(2-chloroethoxy)methane	ND	1760	1500	85		1500	86		40-117	0		50
Hexachlorobutadiene	ND	1760	1400	80		1400	80		40-140	0		50
Hexachlorocyclopentadiene	ND	1760	1200	68		1200	69		40-140	0		50
Hexachloroethane	ND	1760	1400	80		1400	80		40-140	0		50
Isophorone	ND	1760	1500	85		1500	86		40-140	0		50
Naphthalene	ND	1760	1400	80		1500	86		40-140	7		50
Nitrobenzene	ND	1760	1500	85		1500	86		40-140	0		50
NDPA/DPA	ND	1760	1400	80		1400	80		36-157	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06,09-11 QC Batch ID: WG1141554-4 WG1141554-5 QC Sample: L1829309-01 Client ID: RSB20_4-6												
n-Nitrosodi-n-propylamine	ND	1760	1600	91		1500	86		32-121	6		50
Bis(2-ethylhexyl)phthalate	ND	1760	1500	85		1500	86		40-140	0		50
Butyl benzyl phthalate	ND	1760	1500	85		1600	92		40-140	6		50
Di-n-butylphthalate	ND	1760	1400	80		1500	86		40-140	7		50
Di-n-octylphthalate	ND	1760	1600	91		1600	92		40-140	0		50
Diethyl phthalate	ND	1760	1500	85		1500	86		40-140	0		50
Dimethyl phthalate	ND	1760	1400	80		1400	80		40-140	0		50
Benzo(a)anthracene	ND	1760	1400	80		1400	80		40-140	0		50
Benzo(a)pyrene	ND	1760	1500	85		1500	86		40-140	0		50
Benzo(b)fluoranthene	ND	1760	1500	85		1500	86		40-140	0		50
Benzo(k)fluoranthene	ND	1760	1400	80		1400	80		40-140	0		50
Chrysene	ND	1760	1400	80		1400	80		40-140	0		50
Acenaphthylene	ND	1760	1400	80		1400	80		40-140	0		50
Anthracene	ND	1760	1400	80		1400	80		40-140	0		50
Benzo(ghi)perylene	ND	1760	1400	80		1400	80		40-140	0		50
Fluorene	ND	1760	1400	80		1500	86		40-140	7		50
Phenanthrene	ND	1760	1400	80		1400	80		40-140	0		50
Dibenzo(a,h)anthracene	ND	1760	1400	80		1500	86		40-140	7		50
Indeno(1,2,3-cd)pyrene	ND	1760	1400	80		1500	86		40-140	7		50
Pyrene	ND	1760	1400	80		1400	80		35-142	0		50
Biphenyl	ND	1760	1500	85		1500	86		54-104	0		50
4-Chloroaniline	ND	1760	1400	80		1400	80		40-140	0		50
2-Nitroaniline	ND	1760	1500	85		1500	86		47-134	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06,09-11 QC Batch ID: WG1141554-4 WG1141554-5 QC Sample: L1829309-01 Client ID: RSB20_4-6												
3-Nitroaniline	ND	1760	1300	74		1300	74		26-129	0		50
4-Nitroaniline	ND	1760	1400	80		1400	80		41-125	0		50
Dibenzofuran	ND	1760	1400	80		1400	80		40-140	0		50
2-Methylnaphthalene	ND	1760	1400	80		1400	80		40-140	0		50
1,2,4,5-Tetrachlorobenzene	ND	1760	1400	80		1400	80		40-117	0		50
Acetophenone	ND	1760	1600	91		1500	86		14-144	6		50
2,4,6-Trichlorophenol	ND	1760	1400	80		1500	86		30-130	7		50
p-Chloro-m-cresol	ND	1760	1500	85		1500	86		26-103	0		50
2-Chlorophenol	ND	1760	1500	85		1400	80		25-102	7		50
2,4-Dichlorophenol	ND	1760	1500	85		1500	86		30-130	0		50
2,4-Dimethylphenol	ND	1760	1300	74		1300	74		30-130	0		50
2-Nitrophenol	ND	1760	1500	85		1400	80		30-130	7		50
4-Nitrophenol	ND	1760	1700	97		1700	97		11-114	0		50
2,4-Dinitrophenol	ND	1760	600J	34		530J	30		4-130	12		50
4,6-Dinitro-o-cresol	ND	1760	1200	68		1100	63		10-130	9		50
Pentachlorophenol	ND	1760	1300	74		1400	80		17-109	7		50
Phenol	ND	1760	1400	80		1400	80		26-90	0		50
2-Methylphenol	ND	1760	1400	80		1400	80		30-130.	0		50
3-Methylphenol/4-Methylphenol	ND	1760	1400	80		1400	80		30-130	0		50
2,4,5-Trichlorophenol	ND	1760	1500	85		1500	86		30-130	0		50
Benzoic Acid	ND	1760	ND	0	Q	ND	0	Q	10-110	NC		50
Benzyl Alcohol	ND	1760	1600	91		1600	92		40-140	0		50
Carbazole	ND	1760	1400	80		1400	80		54-128	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06,09-11 QC Batch ID: WG1141554-4 WG1141554-5 QC Sample: L1829309-01 Client ID: RSB20_4-6

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	87		89		10-136
2-Fluorobiphenyl	86		87		30-120
2-Fluorophenol	92		92		25-120
4-Terphenyl-d14	85		84		18-120
Nitrobenzene-d5	94		91		23-120
Phenol-d6	92		92		10-120

PETROLEUM HYDROCARBONS

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-04
 Client ID: RSB20_7-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:03
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 08/02/18 15:04
 Analyst: LL
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 08/01/18 07:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	38700	4450	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
o-Terphenyl			78		40-140	

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**SAMPLE RESULTS**

Lab ID: L1829309-04
 Client ID: RSB20_7-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:03
 Date Received: 07/30/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 08/02/18 17:04
 Analyst: MZ
 Percent Solids: 82%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1800	J	ug/kg	3000	57.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	82		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/01/18 12:14
Analyst: SR

Extraction Method: EPA 3546
Extraction Date: 08/01/18 01:34

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 04 Batch: WG1141551-1					
TPH	ND		ug/kg	32900	3780

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/02/18 10:54
Analyst: MZ

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 04 Batch: WG1142645-4					
Gasoline Range Organics	1400	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	86		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 04 Batch: WG1141551-2								
TPH	86		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	73				40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 04 Batch: WG1142645-2 WG1142645-3								
Gasoline Range Organics	82		86		80-120	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	94		99		70-130
4-Bromofluorobenzene	86		87		70-130

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-01
Client ID: RSB20_4-6
Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 08:51
Date Received: 07/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.8		%	0.100	NA	1	-	08/01/18 15:31	121,2540G	RI



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-02
Client ID: RSB22_8-9
Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:55
Date Received: 07/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.2		%	0.100	NA	1	-	08/01/18 06:06	121,2540G	FN



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-03
Client ID: RSB22_10-12
Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:50
Date Received: 07/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.3		%	0.100	NA	1	-	08/01/18 06:06	121,2540G	FN



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-04
Client ID: RSB20_7-9
Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 09:03
Date Received: 07/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	710		mg/kg	100	100.	1	-	08/06/18 00:00	1,9060A	SP
Total Organic Carbon (Rep2)	600		mg/kg	100	100.	1	-	08/06/18 00:00	1,9060A	SP
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Coarse Gravel	ND		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Fine Gravel	ND		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Coarse Sand	ND		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Medium Sand	0.600		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Fine Sand	83.8		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
% Total Fines	15.6		%	0.100	NA	1	-	08/02/18 16:07	12,D6913/D7928	SP
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	08/01/18 09:18	121,2540G	RI



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-05
Client ID: RSB21_11-12
Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:49
Date Received: 07/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.0		%	0.100	NA	1	-	08/01/18 06:06	121,2540G	FN



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-06
Client ID: RSB21_8-9
Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 11:53
Date Received: 07/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.8		%	0.100	NA	1	-	08/01/18 06:06	121,2540G	FN



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-09
Client ID: RSB27_9-10
Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:20
Date Received: 07/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	08/01/18 09:18	121,2540G	RI



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-10
Client ID: RSB27_11-12
Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:15
Date Received: 07/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	08/01/18 09:18	121,2540G	RI



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

SAMPLE RESULTS

Lab ID: L1829309-11
Client ID: RSB28_6-7
Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/30/18 13:38
Date Received: 07/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	08/01/18 09:18	121,2540G	RI



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab for sample(s): 04 Batch: WG1143281-1										
Total Organic Carbon (Rep1)	ND		mg/kg	100	100.	1	-	08/06/18 00:00	1,9060A	SP
Total Organic Carbon (Rep2)	ND		mg/kg	100	100.	1	-	08/06/18 00:00	1,9060A	SP

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829309

Report Date: 08/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 04 Batch: WG1143281-2								
Total Organic Carbon (Rep1)	104		-		75-125	-		25
Total Organic Carbon (Rep2)	119		-		75-125	-		25

Matrix Spike Analysis
Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1143281-4 QC Sample: L1829309-04 Client ID: RSB20_7-9												
Total Organic Carbon (Rep1)	710.	5130	5530	94	-	-	-	-	75-125	-	-	25
Total Organic Carbon (Rep2)	600.	6890	7150	95	-	-	-	-	75-125	-	-	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03,05-06 QC Batch ID: WG1141606-1 QC Sample: L1829582-10 Client ID: DUP Sample						
Solids, Total	79.5	79.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 04,09-11 QC Batch ID: WG1141695-1 QC Sample: L1829582-01 Client ID: DUP Sample						
Solids, Total	88.8	89.4	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1141882-1 QC Sample: L1829309-01 Client ID: RSB20_4-6						
Solids, Total	75.8	76.9	%	1		20
Grain Size Analysis - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1142379-1 QC Sample: L1828984-01 Client ID: DUP Sample						
Cobbles	ND	ND	%	NC		20
% Coarse Gravel	ND	ND	%	NC		20
% Fine Gravel	0.600	1.30	%	74	Q	20
% Coarse Sand	0.700	0.300	%	80	Q	20
% Medium Sand	10.5	11.3	%	7		20
% Fine Sand	60.5	66.4	%	9		20
% Total Fines	27.7	20.7	%	29	Q	20
Total Organic Carbon - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1143281-3 QC Sample: L1829309-04 Client ID: RSB20_7-9						
Total Organic Carbon (Rep1)	710.	520	mg/kg	31	Q	25
Total Organic Carbon (Rep2)	600.	510	mg/kg	16		25

Project Name: 4650 BROADWAY**Lab Number:** L1829309**Project Number:** 170505501**Report Date:** 08/06/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1829309-01A	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-01A1	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-01A2	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-01B	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-01B1	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-01B2	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-01C	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-01C1	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-01C2	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-01D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1829309-01E	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14)
L1829309-01E1	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		NYTCL-8270(14)
L1829309-01E2	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		NYTCL-8270(14)
L1829309-02A	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-02B	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-02C	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-02D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1829309-02E	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14)
L1829309-03A	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-03B	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-03C	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-03D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1829309-03E	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14)

Project Name: 4650 BROADWAY

Lab Number: L1829309

Project Number: 170505501

Report Date: 08/06/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1829309-04A	Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		TS(7),TPH-DRO-D(14)
L1829309-04B	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		TPH-GRO(14)
L1829309-04B9	Vial MeOH preserved split	A	NA		4.4	Y	Absent		TPH-GRO(14)
L1829309-04C	Plastic 8oz unpreserved for Grain Size	A	NA		4.4	Y	Absent		A2-HYDRO-TFINE(),A2-HYDRO-CGRAVEL(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-CSAND(),A2-HYDRO-COBBLES(),A2-HYDRO-FGRAVEL()
L1829309-04D	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		A2-TOC9060-2REPS-PPM(28)
L1829309-05A	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-05B	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-05C	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-05D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1829309-05E	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14)
L1829309-06A	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-06B	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-06C	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-06D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1829309-06E	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14)
L1829309-07A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L1829309-07B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L1829309-08A	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L1829309-08B	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L1829309-08C	Vial HCl preserved	A	NA		4.4	Y	Absent		NYTCL-8260(14)
L1829309-08D	Amber 250ml unpreserved	A	7	7	4.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1829309-08E	Amber 250ml unpreserved	A	7	7	4.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1829309-09A	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-09B	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-09C	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-09D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1829309-09E	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14)

Project Name: 4650 BROADWAY
Project Number: 170505501

Serial_No:08061814:51
Lab Number: L1829309
Report Date: 08/06/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1829309-10A	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-10B	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-10C	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-10D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1829309-10E	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14)
L1829309-11A	Vial MeOH preserved	A	NA		4.4	Y	Absent		NYTCL-8260HLW(14)
L1829309-11B	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-11C	Vial water preserved	A	NA		4.4	Y	Absent	31-JUL-18 10:16	NYTCL-8260HLW(14)
L1829309-11D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1829309-11E	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14)

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829309
Report Date: 08/06/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



ASTM D6913/D7928
GRAIN SIZE ANALYSIS

SAMPLE ID	7657-01	7657-01d	7657-02	8657-02	8657-02d	7813-01	7813-01d	7813-02	7813-03
Dry Wt	15.69	12.7	12.02	58.93	54.45	9.27	9.97	10.1	27.8
SIEVE	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.
3"	0	0							
#1/2	0	0							
#3/4	0	0							
#4	2.58	2.89	4.54	0	0	1.78	1.39	0.96	5.29
#10	2.48	2	1.49	1.06	1.09	1.39	2.01	1.56	4.72
#20	1.81	1.31	1.17	3.11	1.92	1.4	1.64	1.46	2.71
#40	1.27	0.91	0.85	2.7	1.88	0.83	1.05	0.66	1.44
#60	0.9	0.66	0.53	3.96	3.61	0.58	0.69	0.44	1
#100	0.86	0.6	0.45	6.99	7.15	0.6	0.68	0.58	0.97
#200	0.66	0.45	0.31	6.68	6.39	0.37	0.37	1.1	0.84

SAMPLE ID	7813-04	7813-06	8984-01	8984-01d	9309-04				
Dry Wt	19.83	23.91	84.12	87.23	116.23				
SIEVE	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.	Wt Ret.
3"									
#1/2									
#3/4									
#4	2.25	4.73	0.53	1.13	0				
#10	3.68	5.54	0.54	0.25	0.04				
#20	2.06	3.56	1.41	1.59	0.11				
#40	0.99	1.83	7.42	8.31	0.52				
#60	0.73	0.92	9.62	11.12	7.25				
#100	0.84	0.58	19.67	25.16	50.64				
#200	0.83	0.38	21.61	21.63	39.49				

GRAIN SIZE DISTRIBUTION TEST DATA

8/2/2018

Location: RSB16_6-8

Sample Number: L1828984-01

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 84.12
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
84.12	0.00	3	0.00	0.00	100.0
		2	0.00	0.00	100.0
		1	0.00	0.00	100.0
		0.75	0.00	0.00	100.0
		.5	0.00	0.00	100.0
		.375	0.00	0.00	100.0
		#4	0.53	0.00	99.4
		#10	0.54	0.00	98.7
		#20	1.41	0.00	97.1
		#40	7.42	0.00	88.2
		#60	9.62	0.00	76.8
		#100	19.67	0.00	53.4
		#200	21.61	0.00	27.7

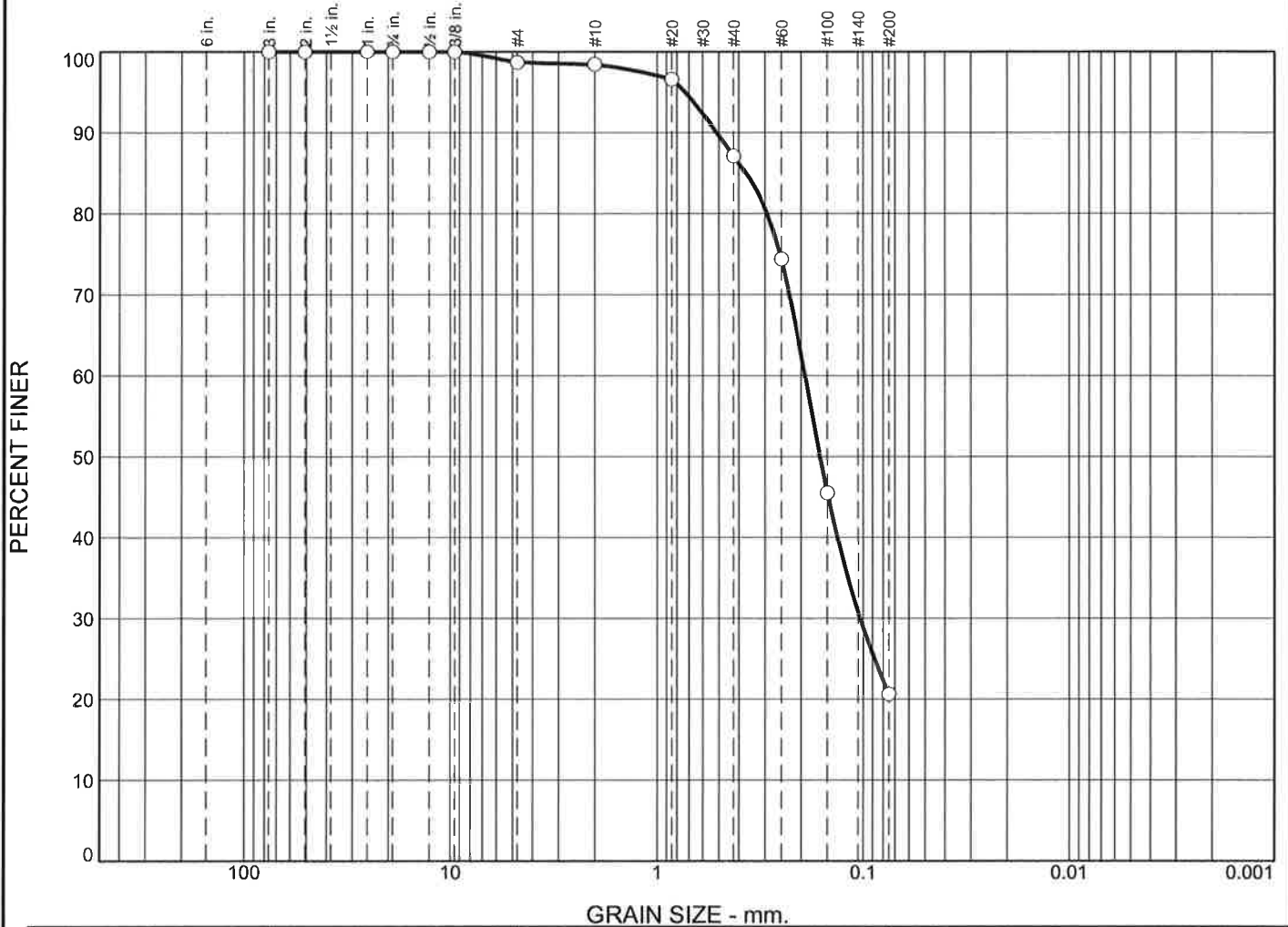
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.6	0.6	0.7	10.5	60.5	71.7			27.7

D ₅	D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₄₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
				0.0804	0.1078	0.1389	0.1721	0.2766	0.3461	0.4787	0.6905

Fineness Modulus
0.75

Particle Size Distribution Report



% +3"		% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
<input type="radio"/>	0.0	0.0	1.3	0.3	11.3	66.4	20.7	

<input checked="" type="checkbox"/>	Colloids	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
<input type="radio"/>				0.3714	0.1920	0.1626	0.1035				

Material Description	USCS	AASHTO
<input type="radio"/>		

Project No. <input type="text"/>	Client: <input type="text"/>	Remarks:
Project: <input type="text"/>		
<input type="radio"/> Source of Sample: RSB16_6-8	Sample Number: WG1142379-1	
Date: <input type="text"/>		
Alpha Analytical		
Mansfield, MA		Figure

GRAIN SIZE DISTRIBUTION TEST DATA

8/2/2018

Location: RSB16_6-8

Sample Number: WG1142379-1

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 87.23
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
87.23	0.00	3	0.00	0.00	100.0
		2	0.00	0.00	100.0
		1	0.00	0.00	100.0
		0.75	0.00	0.00	100.0
		.5	0.00	0.00	100.0
		.375	0.00	0.00	100.0
		#4	1.13	0.00	98.7
		#10	0.25	0.00	98.4
		#20	1.59	0.00	96.6
		#40	8.31	0.00	87.1
		#60	11.12	0.00	74.3
		#100	25.16	0.00	45.5
		#200	21.63	0.00	20.7

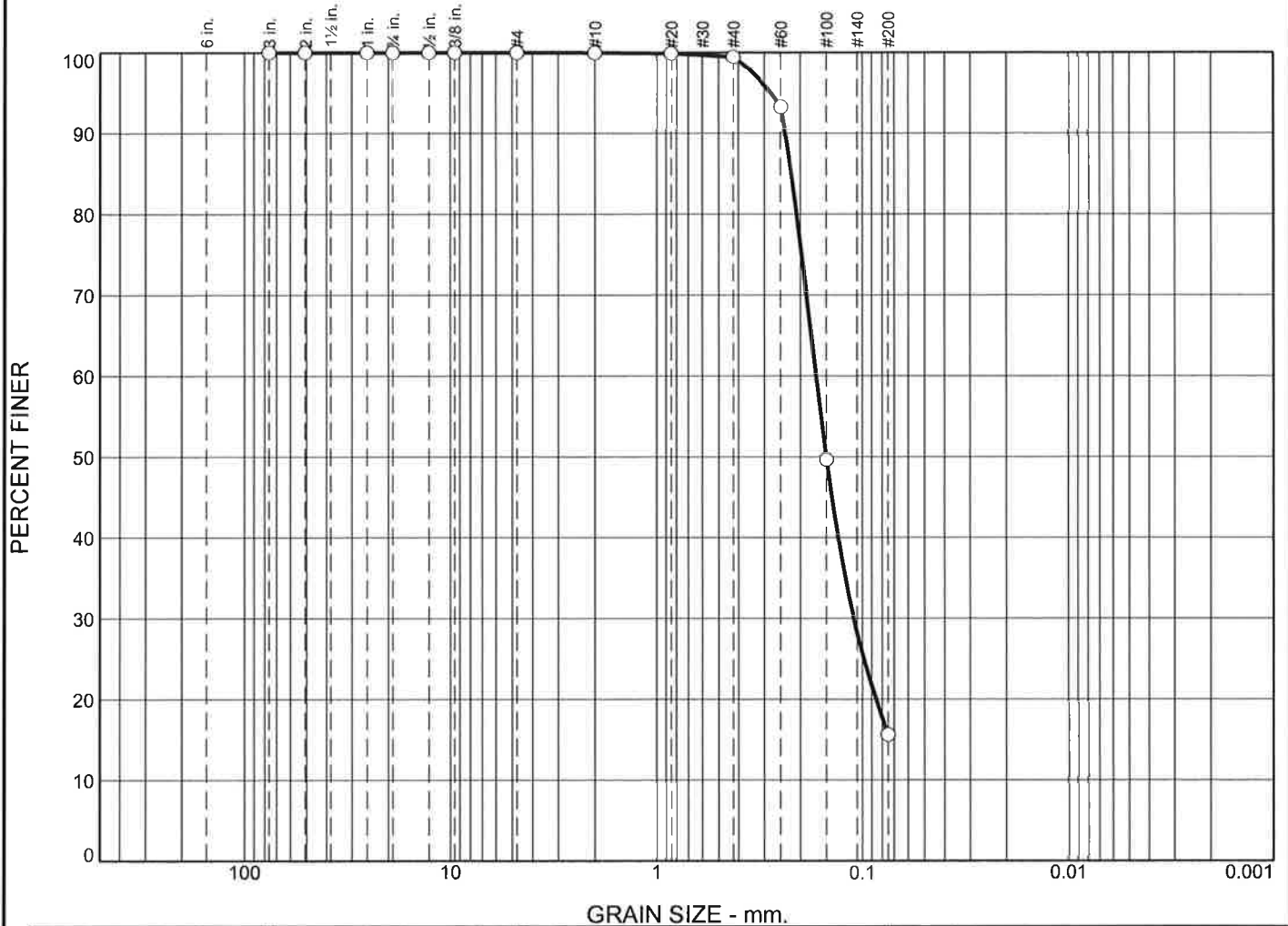
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.3	1.3	0.3	11.3	66.4	78.0			20.7

D ₅	D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₄₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
				0.1035	0.1342	0.1626	0.1920	0.2935	0.3714	0.5139	0.7303

Fineness Modulus
0.87

Particle Size Distribution Report



GRAIN SIZE DISTRIBUTION TEST DATA

8/2/2018

Location: RSB20_7-9

Sample Number: L1829309-04

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 116.23
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
116.23	0.00	3	0.00	0.00	100.0
		2	0.00	0.00	100.0
		1	0.00	0.00	100.0
		0.75	0.00	0.00	100.0
		.5	0.00	0.00	100.0
		.375	0.00	0.00	100.0
		#4	0.00	0.00	100.0
		#10	0.04	0.00	100.0
		#20	0.11	0.00	99.9
		#40	0.52	0.00	99.4
		#60	7.25	0.00	93.2
		#100	50.64	0.00	49.6
		#200	39.49	0.00	15.6

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	0.6	83.8	84.4			15.6

D ₅	D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₄₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
			0.0856	0.1101	0.1316	0.1507	0.1685	0.2087	0.2215	0.2372	0.2810

Fineness Modulus
0.55

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1829484
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	08/07/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1829484-01	RSB26_10-11	SOIL	4650 BROADWAY, NEW YORK, NY	07/31/18 08:27	07/31/18
L1829484-02	RSB26_7-8	SOIL	4650 BROADWAY, NEW YORK, NY	07/31/18 08:35	07/31/18
L1829484-03	RSB25_4-5	SOIL	4650 BROADWAY, NEW YORK, NY	07/31/18 09:14	07/31/18
L1829484-04	RSB29_10-11	SOIL	4650 BROADWAY, NEW YORK, NY	07/31/18 11:01	07/31/18
L1829484-05	RSB29_8-9	SOIL	4650 BROADWAY, NEW YORK, NY	07/31/18 11:05	07/31/18
L1829484-06	RSBTB07_073118	WATER	4650 BROADWAY, NEW YORK, NY	07/31/18 00:00	07/31/18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

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

L1829484-02: The internal standard (IS) response for fluorobenzene (257%) was above the acceptance criteria; however, another low vial was not re-analyzed due to obvious interferences and compounds that exceeded the calibration range. The surrogate recovery is outside the method acceptance criteria for dibromofluoromethane (42%) due to interference with the Internal Standard.

L1829484-02 was analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the original analysis and the re-analysis on dilution which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 08/07/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-01
 Client ID: RSB26_10-11
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:27
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/04/18 11:52
 Analyst: AD
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.95	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.95	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.95	0.12	1
Dibromochloromethane	ND		ug/kg	0.95	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	0.25	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.95	0.52	1
Ethylbenzene	ND		ug/kg	0.95	0.13	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.95	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-01
 Client ID: RSB26_10-11
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:27
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.95	0.28	1
Xylenes, Total	ND		ug/kg	0.95	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.95	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.87	1
Acetone	17		ug/kg	9.5	4.6	1
Carbon disulfide	ND		ug/kg	9.5	4.3	1
2-Butanone	ND		ug/kg	9.5	2.1	1
Vinyl acetate	ND		ug/kg	9.5	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.5	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.95	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.95	0.16	1
sec-Butylbenzene	ND		ug/kg	0.95	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.95	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.95	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.95	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-01

Date Collected: 07/31/18 08:27

Client ID: RSB26_10-11

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.95	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	95	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	107		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-02
 Client ID: RSB26_7-8
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:35
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/04/18 12:20
 Analyst: AD
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	1.1		ug/kg	1.0	0.54	1
Ethylbenzene	410	E	ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-02
 Client ID: RSB26_7-8
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:35
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	0.35	J	ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	1000	E	ug/kg	2.0	0.56	1
o-Xylene	460		ug/kg	1.0	0.29	1
Xylenes, Total	760		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	7.8		ug/kg	1.0	0.17	1
sec-Butylbenzene	11		ug/kg	1.0	0.15	1
tert-Butylbenzene	2.2		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	91		ug/kg	1.0	0.11	1
p-Isopropyltoluene	22		ug/kg	1.0	0.11	1
Naphthalene	250		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-02

Date Collected: 07/31/18 08:35

Client ID: RSB26_7-8

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	140		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	520	E	ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	950	E	ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	100	35.	1
p-Diethylbenzene	140		ug/kg	2.0	0.18	1
p-Ethyltoluene	370	E	ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	60		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	128		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	42	Q	70-130

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-02
 Client ID: RSB26_7-8
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:35
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/06/18 10:08
 Analyst: JC
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	310	140	1
1,1-Dichloroethane	ND		ug/kg	62	9.0	1
Chloroform	ND		ug/kg	93	8.7	1
Carbon tetrachloride	ND		ug/kg	62	14.	1
1,2-Dichloropropane	ND		ug/kg	62	7.8	1
Dibromochloromethane	ND		ug/kg	62	8.7	1
1,1,2-Trichloroethane	ND		ug/kg	62	17.	1
Tetrachloroethene	ND		ug/kg	31	12.	1
Chlorobenzene	ND		ug/kg	31	7.9	1
Trichlorofluoromethane	ND		ug/kg	250	43.	1
1,2-Dichloroethane	ND		ug/kg	62	16.	1
1,1,1-Trichloroethane	ND		ug/kg	31	10.	1
Bromodichloromethane	ND		ug/kg	31	6.8	1
trans-1,3-Dichloropropene	ND		ug/kg	62	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	31	9.8	1
1,3-Dichloropropene, Total	ND		ug/kg	31	9.8	1
1,1-Dichloropropene	ND		ug/kg	31	9.9	1
Bromoform	ND		ug/kg	250	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	10.	1
Benzene	ND		ug/kg	31	10.	1
Toluene	ND		ug/kg	62	34.	1
Ethylbenzene	140		ug/kg	62	8.8	1
Chloromethane	ND		ug/kg	250	58.	1
Bromomethane	ND		ug/kg	120	36.	1
Vinyl chloride	ND		ug/kg	62	21.	1
Chloroethane	ND		ug/kg	120	28.	1
1,1-Dichloroethene	ND		ug/kg	62	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	93	8.5	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-02
 Client ID: RSB26_7-8
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:35
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	31	8.5	1
1,2-Dichlorobenzene	ND		ug/kg	120	9.0	1
1,3-Dichlorobenzene	ND		ug/kg	120	9.2	1
1,4-Dichlorobenzene	ND		ug/kg	120	11.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	300		ug/kg	120	35.	1
o-Xylene	130		ug/kg	62	18.	1
Xylene (Total)	430		ug/kg	62	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	62	11.	1
1,2-Dichloroethene (total)	ND		ug/kg	62	8.5	1
Dibromomethane	ND		ug/kg	120	15.	1
Styrene	170		ug/kg	62	12.	1
Dichlorodifluoromethane	ND		ug/kg	620	57.	1
Acetone	ND		ug/kg	620	300	1
Carbon disulfide	ND		ug/kg	620	280	1
2-Butanone	ND		ug/kg	620	140	1
Vinyl acetate	ND		ug/kg	620	130	1
4-Methyl-2-pentanone	ND		ug/kg	620	80.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.9	1
2-Hexanone	ND		ug/kg	620	73.	1
Bromochloromethane	ND		ug/kg	120	13.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	62	17.	1
1,3-Dichloropropane	ND		ug/kg	120	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	31	8.2	1
Bromobenzene	ND		ug/kg	120	9.0	1
n-Butylbenzene	ND		ug/kg	62	10.	1
sec-Butylbenzene	150		ug/kg	62	9.1	1
tert-Butylbenzene	ND		ug/kg	120	7.3	1
o-Chlorotoluene	ND		ug/kg	120	12.	1
p-Chlorotoluene	ND		ug/kg	120	6.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	62.	1
Hexachlorobutadiene	ND		ug/kg	250	10.	1
Isopropylbenzene	20	J	ug/kg	62	6.8	1
p-Isopropyltoluene	ND		ug/kg	62	6.8	1
Naphthalene	100	J	ug/kg	250	40.	1
Acrylonitrile	ND		ug/kg	250	72.	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-02

Date Collected: 07/31/18 08:35

Client ID: RSB26_7-8

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	38	J	ug/kg	62	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	17.	1
1,3,5-Trimethylbenzene	120		ug/kg	120	12.	1
1,2,4-Trimethylbenzene	190		ug/kg	120	21.	1
1,4-Dioxane	ND		ug/kg	6200	2200	1
1,4-Diethylbenzene	35	J	ug/kg	120	11.	1
4-Ethyltoluene	86	J	ug/kg	120	24.	1
1,2,4,5-Tetramethylbenzene	18	J	ug/kg	120	12.	1
Ethyl ether	ND		ug/kg	120	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	310	88.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-03
 Client ID: RSB25_4-5
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 09:14
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/04/18 12:47
 Analyst: AD
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.88	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.88	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.88	0.11	1
Dibromochloromethane	ND		ug/kg	0.88	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	0.24	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.15	1
Benzene	ND		ug/kg	0.44	0.15	1
Toluene	ND		ug/kg	0.88	0.48	1
Ethylbenzene	ND		ug/kg	0.88	0.12	1
Chloromethane	ND		ug/kg	3.5	0.82	1
Bromomethane	ND		ug/kg	1.8	0.51	1
Vinyl chloride	ND		ug/kg	0.88	0.30	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-03
 Client ID: RSB25_4-5
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 09:14
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.49	1
o-Xylene	ND		ug/kg	0.88	0.26	1
Xylenes, Total	ND		ug/kg	0.88	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.21	1
Styrene	ND		ug/kg	0.88	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.81	1
Acetone	12		ug/kg	8.8	4.2	1
Carbon disulfide	ND		ug/kg	8.8	4.0	1
2-Butanone	ND		ug/kg	8.8	2.0	1
Vinyl acetate	ND		ug/kg	8.8	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.11	1
2-Hexanone	ND		ug/kg	8.8	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.88	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.88	0.15	1
sec-Butylbenzene	ND		ug/kg	0.88	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.10	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.88	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.88	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.88	0.10	1
Naphthalene	1.0	J	ug/kg	3.5	0.57	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-03

Date Collected: 07/31/18 09:14

Client ID: RSB25_4-5

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.88	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.29	1
1,4-Dioxane	ND		ug/kg	88	31.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	104		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-04
 Client ID: RSB29_10-11
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:01
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/04/18 13:01
 Analyst: JC
 Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-04
 Client ID: RSB29_10-11
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:01
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	ND		ug/kg	2.0	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	32		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.14	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.20	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-04
 Client ID: RSB29_10-11
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:01
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	100	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.20	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	77		70-130
Dibromofluoromethane	115		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-05
 Client ID: RSB29_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:05
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/04/18 13:27
 Analyst: JC
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.91	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.91	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.91	0.11	1
Dibromochloromethane	ND		ug/kg	0.91	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.91	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	0.68		ug/kg	0.46	0.15	1
Toluene	0.90	J	ug/kg	0.91	0.50	1
Ethylbenzene	22		ug/kg	0.91	0.13	1
Chloromethane	ND		ug/kg	3.6	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.91	0.31	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-05
 Client ID: RSB29_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:05
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	33		ug/kg	1.8	0.51	1
o-Xylene	2.9		ug/kg	0.91	0.27	1
Xylenes, Total	36		ug/kg	0.91	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.91	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.84	1
Acetone	27		ug/kg	9.1	4.4	1
Carbon disulfide	ND		ug/kg	9.1	4.2	1
2-Butanone	ND		ug/kg	9.1	2.0	1
Vinyl acetate	ND		ug/kg	9.1	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.1	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.91	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	0.79	J	ug/kg	0.91	0.15	1
sec-Butylbenzene	0.58	J	ug/kg	0.91	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	3.7		ug/kg	0.91	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.91	0.10	1
Naphthalene	4.8		ug/kg	3.6	0.59	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-05

Date Collected: 07/31/18 11:05

Client ID: RSB29_8-9

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	8.9		ug/kg	0.91	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	0.66	J	ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	17		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	91	32.	1
p-Diethylbenzene	0.87	J	ug/kg	1.8	0.16	1
p-Ethyltoluene	4.4		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	4.1		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	73		70-130
Dibromofluoromethane	107		70-130

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-06
 Client ID: RSBTB07_073118
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 00:00
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/02/18 09:54
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-06
 Client ID: RSBTB07_073118
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 00:00
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-06
 Client ID: RSBTB07_073118
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 00:00
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	104		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 08:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1142347-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 08:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1142347-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/02/18 08:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1142347-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	109		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/04/18 12:35
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-05 Batch: WG1143240-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/04/18 12:35
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-05 Batch: WG1143240-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.35	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/04/18 12:35
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-05 Batch: WG1143240-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	79		70-130
Dibromofluoromethane	112		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/04/18 10:03
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1143324-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/04/18 10:03
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1143324-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/04/18 10:03
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1143324-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 08:49
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1143528-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
2-Chloroethylvinyl ether	ND		ug/kg	1000	82.
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 08:49
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1143528-5					
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylene (Total)	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene (total)	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 08:49
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1143528-5					
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Isopropyl Ether	ND		ug/kg	100	11.
tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
Methyl Acetate	ND		ug/kg	200	48.
Ethyl Acetate	ND		ug/kg	500	60.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	5000	1800
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	200	35.
1,4-Diethylbenzene	ND		ug/kg	100	8.8
4-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Tetrahydrofuran	ND		ug/kg	200	80.
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	6.4

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 08:49
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1143528-5					
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	8.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1142347-3 WG1142347-4								
Methylene chloride	82		79		70-130	4		20
1,1-Dichloroethane	88		84		70-130	5		20
Chloroform	86		82		70-130	5		20
Carbon tetrachloride	83		79		63-132	5		20
1,2-Dichloropropane	84		82		70-130	2		20
Dibromochloromethane	79		77		63-130	3		20
1,1,2-Trichloroethane	85		83		70-130	2		20
Tetrachloroethene	82		78		70-130	5		20
Chlorobenzene	84		82		75-130	2		20
Trichlorofluoromethane	90		83		62-150	8		20
1,2-Dichloroethane	93		90		70-130	3		20
1,1,1-Trichloroethane	87		83		67-130	5		20
Bromodichloromethane	84		81		67-130	4		20
trans-1,3-Dichloropropene	84		82		70-130	2		20
cis-1,3-Dichloropropene	82		79		70-130	4		20
1,1-Dichloropropene	86		82		70-130	5		20
Bromoform	76		75		54-136	1		20
1,1,1,2,2-Tetrachloroethane	86		84		67-130	2		20
Benzene	84		80		70-130	5		20
Toluene	87		84		70-130	4		20
Ethylbenzene	88		85		70-130	3		20
Chloromethane	82		77		64-130	6		20
Bromomethane	62		58		39-139	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1142347-3 WG1142347-4								
Vinyl chloride	96		90		55-140	6		20
Chloroethane	100		94		55-138	6		20
1,1-Dichloroethene	81		76		61-145	6		20
trans-1,2-Dichloroethene	79		76		70-130	4		20
Trichloroethene	85		81		70-130	5		20
1,2-Dichlorobenzene	85		82		70-130	4		20
1,3-Dichlorobenzene	85		82		70-130	4		20
1,4-Dichlorobenzene	84		81		70-130	4		20
Methyl tert butyl ether	86		84		63-130	2		20
p/m-Xylene	85		85		70-130	0		20
o-Xylene	85		80		70-130	6		20
cis-1,2-Dichloroethene	79		77		70-130	3		20
Dibromomethane	82		82		70-130	0		20
1,2,3-Trichloropropane	95		95		64-130	0		20
Acrylonitrile	81		78		70-130	4		20
Styrene	85		80		70-130	6		20
Dichlorodifluoromethane	96		89		36-147	8		20
Acetone	93		88		58-148	6		20
Carbon disulfide	85		80		51-130	6		20
2-Butanone	85		79		63-138	7		20
Vinyl acetate	86		83		70-130	4		20
4-Methyl-2-pentanone	87		84		59-130	4		20
2-Hexanone	78		79		57-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1142347-3 WG1142347-4								
Bromochloromethane	82		78		70-130	5		20
2,2-Dichloropropane	92		86		63-133	7		20
1,2-Dibromoethane	81		79		70-130	3		20
1,3-Dichloropropane	86		84		70-130	2		20
1,1,1,2-Tetrachloroethane	82		80		64-130	2		20
Bromobenzene	82		81		70-130	1		20
n-Butylbenzene	99		94		53-136	5		20
sec-Butylbenzene	94		90		70-130	4		20
tert-Butylbenzene	93		89		70-130	4		20
o-Chlorotoluene	93		90		70-130	3		20
p-Chlorotoluene	96		92		70-130	4		20
1,2-Dibromo-3-chloropropane	75		73		41-144	3		20
Hexachlorobutadiene	90		87		63-130	3		20
Isopropylbenzene	92		89		70-130	3		20
p-Isopropyltoluene	95		91		70-130	4		20
Naphthalene	79		76		70-130	4		20
n-Propylbenzene	95		92		69-130	3		20
1,2,3-Trichlorobenzene	77		74		70-130	4		20
1,2,4-Trichlorobenzene	80		78		70-130	3		20
1,3,5-Trimethylbenzene	93		90		64-130	3		20
1,2,4-Trimethylbenzene	93		91		70-130	2		20
1,4-Dioxane	96		84		56-162	13		20
p-Diethylbenzene	93		90		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

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Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1142347-3 WG1142347-4								
p-Ethyltoluene	94		90		70-130	4		20
1,2,4,5-Tetramethylbenzene	89		86		70-130	3		20
Ethyl ether	83		81		59-134	2		20
trans-1,4-Dichloro-2-butene	96		94		70-130	2		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	115		109		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	111		111		70-130
Dibromofluoromethane	100		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-05 Batch: WG1143240-3 WG1143240-4								
Methylene chloride	101		122		70-130	19		30
1,1-Dichloroethane	102		113		70-130	10		30
Chloroform	109		117		70-130	7		30
Carbon tetrachloride	126		121		70-130	4		30
1,2-Dichloropropane	100		114		70-130	13		30
Dibromochloromethane	99		98		70-130	1		30
1,1,2-Trichloroethane	85		84		70-130	1		30
Tetrachloroethene	116		114		70-130	2		30
Chlorobenzene	96		95		70-130	1		30
Trichlorofluoromethane	98		125		70-139	24		30
1,2-Dichloroethane	104		106		70-130	2		30
1,1,1-Trichloroethane	119		119		70-130	0		30
Bromodichloromethane	109		130		70-130	18		30
trans-1,3-Dichloropropene	80		80		70-130	0		30
cis-1,3-Dichloropropene	102		120		70-130	16		30
1,1-Dichloropropene	107		112		70-130	5		30
Bromoform	100		86		70-130	15		30
1,1,2,2-Tetrachloroethane	86		75		70-130	14		30
Benzene	105		115		70-130	9		30
Toluene	87		86		70-130	1		30
Ethylbenzene	86		85		70-130	1		30
Chloromethane	96		115		52-130	18		30
Bromomethane	151	Q	175	Q	57-147	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-05 Batch: WG1143240-3 WG1143240-4								
Vinyl chloride	92		110		67-130	18		30
Chloroethane	104		121		50-151	15		30
1,1-Dichloroethene	111		133		65-135	18		30
trans-1,2-Dichloroethene	110		132	Q	70-130	18		30
Trichloroethene	117		117		70-130	0		30
1,2-Dichlorobenzene	93		93		70-130	0		30
1,3-Dichlorobenzene	94		95		70-130	1		30
1,4-Dichlorobenzene	95		94		70-130	1		30
Methyl tert butyl ether	94		118		66-130	23		30
p/m-Xylene	91		90		70-130	1		30
o-Xylene	89		88		70-130	1		30
cis-1,2-Dichloroethene	110		124		70-130	12		30
Dibromomethane	111		122		70-130	9		30
Styrene	88		88		70-130	0		30
Dichlorodifluoromethane	100		115		30-146	14		30
Acetone	112		140		54-140	22		30
Carbon disulfide	99		119		59-130	18		30
2-Butanone	103		111		70-130	7		30
Vinyl acetate	101		108		70-130	7		30
4-Methyl-2-pentanone	64	Q	64	Q	70-130	0		30
1,2,3-Trichloropropane	82		69		68-130	17		30
2-Hexanone	67	Q	67	Q	70-130	0		30
Bromochloromethane	131	Q	143	Q	70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-05 Batch: WG1143240-3 WG1143240-4								
2,2-Dichloropropane	110		116		70-130	5		30
1,2-Dibromoethane	90		92		70-130	2		30
1,3-Dichloropropane	82		82		69-130	0		30
1,1,1,2-Tetrachloroethane	100		99		70-130	1		30
Bromobenzene	109		93		70-130	16		30
n-Butylbenzene	87		81		70-130	7		30
sec-Butylbenzene	90		82		70-130	9		30
tert-Butylbenzene	97		84		70-130	14		30
o-Chlorotoluene	89		76		70-130	16		30
p-Chlorotoluene	88		76		70-130	15		30
1,2-Dibromo-3-chloropropane	73		82		68-130	12		30
Hexachlorobutadiene	95		120		67-130	23		30
Isopropylbenzene	93		77		70-130	19		30
p-Isopropyltoluene	89		85		70-130	5		30
Naphthalene	77		83		70-130	8		30
Acrylonitrile	91		102		70-130	11		30
n-Propylbenzene	90		75		70-130	18		30
1,2,3-Trichlorobenzene	89		102		70-130	14		30
1,2,4-Trichlorobenzene	88		101		70-130	14		30
1,3,5-Trimethylbenzene	94		79		70-130	17		30
1,2,4-Trimethylbenzene	90		80		70-130	12		30
1,4-Dioxane	112		138	Q	65-136	21		30
p-Diethylbenzene	92		85		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-05 Batch: WG1143240-3 WG1143240-4								
p-Ethyltoluene	95		79		70-130	18		30
1,2,4,5-Tetramethylbenzene	80		80		70-130	0		30
Ethyl ether	97		124		67-130	24		30
trans-1,4-Dichloro-2-butene	76		65	Q	70-130	16		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		98		70-130
Toluene-d8	86		85		70-130
4-Bromofluorobenzene	90		78		70-130
Dibromofluoromethane	114		114		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1143324-3 WG1143324-4								
Methylene chloride	96		98		70-130	2		30
1,1-Dichloroethane	104		106		70-130	2		30
Chloroform	101		104		70-130	3		30
Carbon tetrachloride	102		106		70-130	4		30
1,2-Dichloropropane	103		107		70-130	4		30
Dibromochloromethane	97		102		70-130	5		30
1,1,2-Trichloroethane	102		106		70-130	4		30
Tetrachloroethene	94		95		70-130	1		30
Chlorobenzene	96		100		70-130	4		30
Trichlorofluoromethane	87		91		70-139	4		30
1,2-Dichloroethane	113		116		70-130	3		30
1,1,1-Trichloroethane	102		105		70-130	3		30
Bromodichloromethane	100		106		70-130	6		30
trans-1,3-Dichloropropene	101		107		70-130	6		30
cis-1,3-Dichloropropene	102		107		70-130	5		30
1,1-Dichloropropene	102		106		70-130	4		30
Bromoform	94		100		70-130	6		30
1,1,2,2-Tetrachloroethane	101		108		70-130	7		30
Benzene	97		100		70-130	3		30
Toluene	97		99		70-130	2		30
Ethylbenzene	98		101		70-130	3		30
Chloromethane	112		107		52-130	5		30
Bromomethane	77		79		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1143324-3 WG1143324-4								
Vinyl chloride	95		96		67-130	1		30
Chloroethane	91		92		50-151	1		30
1,1-Dichloroethene	97		99		65-135	2		30
trans-1,2-Dichloroethene	94		96		70-130	2		30
Trichloroethene	99		102		70-130	3		30
1,2-Dichlorobenzene	96		99		70-130	3		30
1,3-Dichlorobenzene	96		100		70-130	4		30
1,4-Dichlorobenzene	96		99		70-130	3		30
Methyl tert butyl ether	98		103		66-130	5		30
p/m-Xylene	98		101		70-130	3		30
o-Xylene	96		101		70-130	5		30
cis-1,2-Dichloroethene	96		99		70-130	3		30
Dibromomethane	101		104		70-130	3		30
Styrene	100		104		70-130	4		30
Dichlorodifluoromethane	95		98		30-146	3		30
Acetone	134		141	Q	54-140	5		30
Carbon disulfide	90		92		59-130	2		30
2-Butanone	125		130		70-130	4		30
Vinyl acetate	108		113		70-130	5		30
4-Methyl-2-pentanone	106		109		70-130	3		30
1,2,3-Trichloropropane	104		107		68-130	3		30
2-Hexanone	114		118		70-130	3		30
Bromochloromethane	99		102		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1143324-3 WG1143324-4								
2,2-Dichloropropane	102		106		70-130	4		30
1,2-Dibromoethane	98		104		70-130	6		30
1,3-Dichloropropane	100		104		69-130	4		30
1,1,1,2-Tetrachloroethane	97		103		70-130	6		30
Bromobenzene	92		95		70-130	3		30
n-Butylbenzene	104		107		70-130	3		30
sec-Butylbenzene	99		103		70-130	4		30
tert-Butylbenzene	96		98		70-130	2		30
o-Chlorotoluene	100		102		70-130	2		30
p-Chlorotoluene	101		103		70-130	2		30
1,2-Dibromo-3-chloropropane	94		101		68-130	7		30
Hexachlorobutadiene	91		92		67-130	1		30
Isopropylbenzene	95		98		70-130	3		30
p-Isopropyltoluene	98		101		70-130	3		30
Naphthalene	94		100		70-130	6		30
Acrylonitrile	108		115		70-130	6		30
n-Propylbenzene	99		101		70-130	2		30
1,2,3-Trichlorobenzene	94		99		70-130	5		30
1,2,4-Trichlorobenzene	93		96		70-130	3		30
1,3,5-Trimethylbenzene	99		102		70-130	3		30
1,2,4-Trimethylbenzene	99		102		70-130	3		30
1,4-Dioxane	102		107		65-136	5		30
p-Diethylbenzene	95		98		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1143324-3 WG1143324-4								
p-Ethyltoluene	96		99		70-130	3		30
1,2,4,5-Tetramethylbenzene	95		97		70-130	2		30
Ethyl ether	93		96		67-130	3		30
trans-1,4-Dichloro-2-butene	112		121		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	114		113		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	107		105		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1143528-3 WG1143528-4									
Methylene chloride	93		94		70-130		1		30
1,1-Dichloroethane	97		98		70-130		1		30
Chloroform	95		100		70-130		5		30
Carbon tetrachloride	92		94		70-130		2		30
1,2-Dichloropropane	97		100		70-130		3		30
Dibromochloromethane	94		97		70-130		3		30
2-Chloroethylvinyl ether	97		106		70-130		9		30
1,1,2-Trichloroethane	99		102		70-130		3		30
Tetrachloroethene	87		85		70-130		2		30
Chlorobenzene	92		92		70-130		0		30
Trichlorofluoromethane	74		77		70-139		4		30
1,2-Dichloroethane	107		111		70-130		4		30
1,1,1-Trichloroethane	94		94		70-130		0		30
Bromodichloromethane	98		102		70-130		4		30
trans-1,3-Dichloropropene	97		101		70-130		4		30
cis-1,3-Dichloropropene	96		100		70-130		4		30
1,1-Dichloropropene	92		93		70-130		1		30
Bromoform	92		96		70-130		4		30
1,1,2,2-Tetrachloroethane	98		106		70-130		8		30
Benzene	91		92		70-130		1		30
Toluene	90		90		70-130		0		30
Ethylbenzene	92		92		70-130		0		30
Chloromethane	133	Q	110		52-130		19		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1143528-3 WG1143528-4								
Bromomethane	60		63		57-147	5		30
Vinyl chloride	91		93		67-130	2		30
Chloroethane	68		78		50-151	14		30
1,1-Dichloroethene	85		86		65-135	1		30
trans-1,2-Dichloroethene	88		89		70-130	1		30
Trichloroethene	93		93		70-130	0		30
1,2-Dichlorobenzene	90		93		70-130	3		30
1,3-Dichlorobenzene	91		91		70-130	0		30
1,4-Dichlorobenzene	90		91		70-130	1		30
Methyl tert butyl ether	95		99		66-130	4		30
p/m-Xylene	92		92		70-130	0		30
o-Xylene	91		92		70-130	1		30
cis-1,2-Dichloroethene	90		92		70-130	2		30
Dibromomethane	98		101		70-130	3		30
Styrene	104		101		70-130	3		30
Dichlorodifluoromethane	91		87		30-146	4		30
Acetone	139		149	Q	54-140	7		30
Carbon disulfide	81		82		59-130	1		30
2-Butanone	120		134	Q	70-130	11		30
Vinyl acetate	112		118		70-130	5		30
4-Methyl-2-pentanone	102		111		70-130	8		30
1,2,3-Trichloropropane	100		106		68-130	6		30
2-Hexanone	103		112		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1143528-3 WG1143528-4								
Bromochloromethane	96		97		70-130	1		30
2,2-Dichloropropane	96		96		70-130	0		30
1,2-Dibromoethane	95		101		70-130	6		30
1,3-Dichloropropane	97		101		69-130	4		30
1,1,1,2-Tetrachloroethane	93		94		70-130	1		30
Bromobenzene	86		88		70-130	2		30
n-Butylbenzene	94		94		70-130	0		30
sec-Butylbenzene	90		91		70-130	1		30
tert-Butylbenzene	87		89		70-130	2		30
o-Chlorotoluene	93		92		70-130	1		30
p-Chlorotoluene	93		94		70-130	1		30
1,2-Dibromo-3-chloropropane	94		103		68-130	9		30
Hexachlorobutadiene	79		80		67-130	1		30
Isopropylbenzene	87		88		70-130	1		30
p-Isopropyltoluene	90		90		70-130	0		30
Naphthalene	90		96		70-130	6		30
Acrylonitrile	113		118		70-130	4		30
Isopropyl Ether	103		107		66-130	4		30
tert-Butyl Alcohol	101		107		70-130	6		30
n-Propylbenzene	91		92		70-130	1		30
1,2,3-Trichlorobenzene	90		91		70-130	1		30
1,2,4-Trichlorobenzene	86		88		70-130	2		30
1,3,5-Trimethylbenzene	91		92		70-130	1		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1143528-3 WG1143528-4									
1,2,4-Trimethylbenzene	92		93		70-130		1		30
Methyl Acetate	111		123		51-146		10		30
Ethyl Acetate	120		128		70-130		6		30
Acrolein	110		118		70-130		7		30
Cyclohexane	94		96		59-142		2		30
1,4-Dioxane	94		99		65-136		5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	89		89		50-139		0		30
1,4-Diethylbenzene	86		87		70-130		1		30
4-Ethyltoluene	88		89		70-130		1		30
1,2,4,5-Tetramethylbenzene	89		88		70-130		1		30
Tetrahydrofuran	120		127		66-130		6		30
Ethyl ether	96		94		67-130		2		30
trans-1,4-Dichloro-2-butene	112		120		70-130		7		30
Methyl cyclohexane	84		85		70-130		1		30
Ethyl-Tert-Butyl-Ether	98		101		70-130		3		30
Tertiary-Amyl Methyl Ether	91		97		70-130		6		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	104		100		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	102		105		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-01
 Client ID: RSB26_10-11
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:27
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/05/18 00:25
 Analyst: RC
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 08/02/18 20:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-01
 Client ID: RSB26_10-11
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:27
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	34.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-01

Date Collected: 07/31/18 08:27

Client ID: RSB26_10-11

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	96		18-120

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-02
 Client ID: RSB26_7-8
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:35
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/05/18 00:51
 Analyst: RC
 Percent Solids: 77%

Extraction Method: EPA 3546
 Extraction Date: 08/02/18 20:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	62	J	ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-02
 Client ID: RSB26_7-8
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 08:35
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	34.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-02

Date Collected: 07/31/18 08:35

Client ID: RSB26_7-8

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	90		18-120

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-03
 Client ID: RSB25_4-5
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 09:14
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/05/18 01:17
 Analyst: RC
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 08/02/18 20:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-03
 Client ID: RSB25_4-5
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 09:14
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-03

Date Collected: 07/31/18 09:14

Client ID: RSB25_4-5

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	86		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-04
 Client ID: RSB29_10-11
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:01
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/05/18 01:44
 Analyst: RC
 Percent Solids: 76%

Extraction Method: EPA 3546
 Extraction Date: 08/02/18 20:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-04
 Client ID: RSB29_10-11
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:01
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-04

Date Collected: 07/31/18 11:01

Client ID: RSB29_10-11

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	67		18-120

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-05
 Client ID: RSB29_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:05
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/05/18 02:10
 Analyst: RC
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 08/02/18 20:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-05
 Client ID: RSB29_8-9
 Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:05
 Date Received: 07/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 4650 BROADWAY**Lab Number:** L1829484**Project Number:** 170505501**Report Date:** 08/07/18**SAMPLE RESULTS**

Lab ID: L1829484-05

Date Collected: 07/31/18 11:05

Client ID: RSB29_8-9

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	92		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/03/18 10:20
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 08/02/18 20:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1142443-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/03/18 10:20
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 08/02/18 20:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1142443-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/03/18 10:20
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 08/02/18 20:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1142443-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	88		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1142443-2 WG1142443-3								
Acenaphthene	80		79		31-137	1		50
1,2,4-Trichlorobenzene	73		71		38-107	3		50
Hexachlorobenzene	80		79		40-140	1		50
Bis(2-chloroethyl)ether	69		67		40-140	3		50
2-Chloronaphthalene	77		76		40-140	1		50
1,2-Dichlorobenzene	74		70		40-140	6		50
1,3-Dichlorobenzene	72		68		40-140	6		50
1,4-Dichlorobenzene	72		69		28-104	4		50
3,3'-Dichlorobenzidine	60		60		40-140	0		50
2,4-Dinitrotoluene	83		81		40-132	2		50
2,6-Dinitrotoluene	77		78		40-140	1		50
Fluoranthene	82		81		40-140	1		50
4-Chlorophenyl phenyl ether	75		75		40-140	0		50
4-Bromophenyl phenyl ether	77		76		40-140	1		50
Bis(2-chloroisopropyl)ether	78		76		40-140	3		50
Bis(2-chloroethoxy)methane	72		70		40-117	3		50
Hexachlorobutadiene	70		66		40-140	6		50
Hexachlorocyclopentadiene	60		58		40-140	3		50
Hexachloroethane	72		66		40-140	9		50
Isophorone	73		70		40-140	4		50
Naphthalene	78		75		40-140	4		50
Nitrobenzene	71		70		40-140	1		50
NDPA/DPA	82		80		36-157	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1142443-2 WG1142443-3								
n-Nitrosodi-n-propylamine	71		70		32-121	1		50
Bis(2-ethylhexyl)phthalate	89		88		40-140	1		50
Butyl benzyl phthalate	88		85		40-140	3		50
Di-n-butylphthalate	86		85		40-140	1		50
Di-n-octylphthalate	92		89		40-140	3		50
Diethyl phthalate	83		83		40-140	0		50
Dimethyl phthalate	79		78		40-140	1		50
Benzo(a)anthracene	80		79		40-140	1		50
Benzo(a)pyrene	86		84		40-140	2		50
Benzo(b)fluoranthene	82		82		40-140	0		50
Benzo(k)fluoranthene	85		83		40-140	2		50
Chrysene	79		78		40-140	1		50
Acenaphthylene	80		79		40-140	1		50
Anthracene	83		82		40-140	1		50
Benzo(ghi)perylene	86		83		40-140	4		50
Fluorene	81		81		40-140	0		50
Phenanthrene	83		80		40-140	4		50
Dibenzo(a,h)anthracene	86		84		40-140	2		50
Indeno(1,2,3-cd)pyrene	87		83		40-140	5		50
Pyrene	82		82		35-142	0		50
Biphenyl	81		80		54-104	1		50
4-Chloroaniline	66		65		40-140	2		50
2-Nitroaniline	83		82		47-134	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1142443-2 WG1142443-3								
3-Nitroaniline	76		72		26-129	5		50
4-Nitroaniline	86		87		41-125	1		50
Dibenzofuran	80		81		40-140	1		50
2-Methylnaphthalene	78		75		40-140	4		50
1,2,4,5-Tetrachlorobenzene	72		72		40-117	0		50
Acetophenone	79		77		14-144	3		50
2,4,6-Trichlorophenol	79		79		30-130	0		50
p-Chloro-m-cresol	84		82		26-103	2		50
2-Chlorophenol	80		79		25-102	1		50
2,4-Dichlorophenol	84		82		30-130	2		50
2,4-Dimethylphenol	84		82		30-130	2		50
2-Nitrophenol	75		74		30-130	1		50
4-Nitrophenol	85		87		11-114	2		50
2,4-Dinitrophenol	42		40		4-130	5		50
4,6-Dinitro-o-cresol	72		70		10-130	3		50
Pentachlorophenol	79		77		17-109	3		50
Phenol	83		80		26-90	4		50
2-Methylphenol	81		81		30-130.	0		50
3-Methylphenol/4-Methylphenol	88		85		30-130	3		50
2,4,5-Trichlorophenol	80		80		30-130	0		50
Benzoic Acid	22		17		10-110	26		50
Benzyl Alcohol	81		76		40-140	6		50
Carbazole	86		86		54-128	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1142443-2 WG1142443-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		80		25-120
Phenol-d6	86		84		10-120
Nitrobenzene-d5	78		74		23-120
2-Fluorobiphenyl	82		78		30-120
2,4,6-Tribromophenol	93		91		10-136
4-Terphenyl-d14	88		84		18-120

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-01

Date Collected: 07/31/18 08:27

Client ID: RSB26_10-11

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.9		%	0.100	NA	1	-	08/01/18 15:31	121,2540G	RI



Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-02

Date Collected: 07/31/18 08:35

Client ID: RSB26_7-8

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	08/01/18 15:31	121,2540G	RI



Project Name: 4650 BROADWAY

Lab Number: L1829484

Project Number: 170505501

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-03

Date Collected: 07/31/18 09:14

Client ID: RSB25_4-5

Date Received: 07/31/18

Sample Location: 4650 BROADWAY, NEW YORK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	08/01/18 15:31	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-04

Client ID: RSB29_10-11

Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:01

Date Received: 07/31/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.2		%	0.100	NA	1	-	08/01/18 15:31	121,2540G	RI



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

SAMPLE RESULTS

Lab ID: L1829484-05

Client ID: RSB29_8-9

Sample Location: 4650 BROADWAY, NEW YORK, NY

Date Collected: 07/31/18 11:05

Date Received: 07/31/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.8		%	0.100	NA	1	-	08/01/18 15:31	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829484

Report Date: 08/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1141882-1 QC Sample: L1829309-01 Client ID: DUP Sample						
Solids, Total	75.8	76.9	%	1		20

Project Name: 4650 BROADWAY
Project Number: 170505501

Serial_No:08071815:57
Lab Number: L1829484
Report Date: 08/07/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1829484-01A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1829484-01B	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260HLW(14)
L1829484-01C	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260HLW(14)
L1829484-01D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1829484-01E	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1829484-02A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L1829484-02B	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1829484-02C	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1829484-02D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1829484-02E	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1829484-03A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1829484-03B	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260HLW(14)
L1829484-03C	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260HLW(14)
L1829484-03D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1829484-03E	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1829484-04A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1829484-04B	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260HLW(14)
L1829484-04C	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260HLW(14)
L1829484-04D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1829484-04E	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1829484-05A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L1829484-05B	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260HLW(14)
L1829484-05C	Vial water preserved	A	NA		3.3	Y	Absent	01-AUG-18 08:02	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



Project Name: 4650 BROADWAY

Project Number: 170505501

Serial_No:08071815:57

Lab Number: L1829484

Report Date: 08/07/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1829484-05D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L1829484-05E	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14)
L1829484-06A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L1829484-06B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- 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.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829484
Report Date: 08/07/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1	Date Rec'd in Lab 7/31/18	ALPHA Job # 15071801																																																																											
	Project Information Project Name: 4650 Broadway Project Location: 4650 Broadway, New York, NY Project # 170505501 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #																																																																										
Client Information Client: LANGAN Address: 360 W 81 st St., 8 FL New York, NY Phone: 212-479-5400 Fax: 212-479-5444 Email: JLeung@langan.com		Project Manager: Julia Leung ALPHAQuote #:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other TCL <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																										
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Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">Part 375/TCL VOCs</th> <th rowspan="2">Part 375/TCL S.VOCs</th> <th colspan="2">Sample Filtration</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> <th><input type="checkbox"/> Done</th> <th><input type="checkbox"/> Lab to do</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>RSB26-10-11</td> <td>7/31/18</td> <td>8:27</td> <td>S</td> <td>DP</td> <td>X</td> <td>X</td> <td><input type="checkbox"/> Lab to do</td> <td></td> </tr> <tr> <td>02</td> <td>RSB26-7-8</td> <td>7/31/18</td> <td>8:35</td> <td>S</td> <td>DP</td> <td>X</td> <td>X</td> <td><input type="checkbox"/> Lab to do</td> <td></td> </tr> <tr> <td>03</td> <td>RSB25-4-5</td> <td>7/31/18</td> <td>9:14</td> <td>S</td> <td>DP</td> <td>X</td> <td>X</td> <td><input type="checkbox"/> Lab to do</td> <td></td> </tr> <tr> <td>04</td> <td>RSB29-10-11</td> <td>7/31/18</td> <td>11:01</td> <td>S</td> <td>DP</td> <td>X</td> <td>X</td> <td><input type="checkbox"/> Lab to do</td> <td></td> </tr> <tr> <td>05</td> <td>RSB29-8-9</td> <td>7/31/18</td> <td>11:05</td> <td>S</td> <td>DP</td> <td>X</td> <td>X</td> <td><input type="checkbox"/> Lab to do</td> <td></td> </tr> <tr> <td>06</td> <td>RSB1307-073118</td> <td>7/31/18</td> <td></td> <td>AQ</td> <td>DP</td> <td>X</td> <td></td> <td><input type="checkbox"/> Lab to do</td> <td></td> </tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Part 375/TCL VOCs	Part 375/TCL S.VOCs	Sample Filtration		Sample Specific Comments	Date	Time	<input type="checkbox"/> Done	<input type="checkbox"/> Lab to do	01	RSB26-10-11	7/31/18	8:27	S	DP	X	X	<input type="checkbox"/> Lab to do		02	RSB26-7-8	7/31/18	8:35	S	DP	X	X	<input type="checkbox"/> Lab to do		03	RSB25-4-5	7/31/18	9:14	S	DP	X	X	<input type="checkbox"/> Lab to do		04	RSB29-10-11	7/31/18	11:01	S	DP	X	X	<input type="checkbox"/> Lab to do		05	RSB29-8-9	7/31/18	11:05	S	DP	X	X	<input type="checkbox"/> Lab to do		06	RSB1307-073118	7/31/18		AQ	DP	X		<input type="checkbox"/> Lab to do		(Please Specify below)
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																							
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ANALYTICAL REPORT

Lab Number:	L1829793
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	08/08/18

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), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1829793-01	RSB31_6-7	SOIL	4650 BROADWAY, NY, NY	08/01/18 14:40	08/01/18
L1829793-02	RSBTB08_080118	WATER	4650 BROADWAY, NY, NY	08/01/18 00:00	08/01/18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

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.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 08/08/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

SAMPLE RESULTS

Lab ID: L1829793-01
Client ID: RSB31_6-7
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 14:40
Date Received: 08/01/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/07/18 22:31
Analyst: JC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	0.18	J	ug/kg	0.50	0.17	1
Toluene	0.76	J	ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 4650 BROADWAY**Lab Number:** L1829793**Project Number:** 170505501**Report Date:** 08/08/18**SAMPLE RESULTS**

Lab ID: L1829793-01
 Client ID: RSB31_6-7
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 14:40
 Date Received: 08/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	15		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

SAMPLE RESULTS

Lab ID: L1829793-01
Client ID: RSB31_6-7
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 14:40
Date Received: 08/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	100	35.	1
p-Diethylbenzene	0.31	J	ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	0.39	J	ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

SAMPLE RESULTS

Lab ID: L1829793-02
 Client ID: RSBTB08_080118
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 00:00
 Date Received: 08/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/03/18 17:04
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1829793

Project Number: 170505501

Report Date: 08/08/18

SAMPLE RESULTS

Lab ID: L1829793-02
 Client ID: RSBTB08_080118
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 00:00
 Date Received: 08/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.4	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

SAMPLE RESULTS

Lab ID: L1829793-02
Client ID: RSBTB08_080118
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 00:00
Date Received: 08/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	124		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	111		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/03/18 08:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1142818-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/03/18 08:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1142818-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/03/18 08:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1142818-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	120		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	111		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/07/18 20:17
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1144150-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/07/18 20:17
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1144150-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/07/18 20:17
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1144150-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1142818-3 WG1142818-4								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	92		95		70-130	3		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	98		99		63-132	1		20
1,2-Dichloropropane	89		90		70-130	1		20
Dibromochloromethane	82		86		63-130	5		20
1,1,2-Trichloroethane	87		91		70-130	4		20
Tetrachloroethene	76		76		70-130	0		20
Chlorobenzene	89		91		75-130	2		20
Trichlorofluoromethane	95		94		62-150	1		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	85		88		70-130	3		20
cis-1,3-Dichloropropene	99		100		70-130	1		20
1,1-Dichloropropene	93		95		70-130	2		20
Bromoform	83		87		54-136	5		20
1,1,2,2-Tetrachloroethane	99		110		67-130	11		20
Benzene	98		97		70-130	1		20
Toluene	80		79		70-130	1		20
Ethylbenzene	95		95		70-130	0		20
Chloromethane	90		95		64-130	5		20
Bromomethane	100		100		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1142818-3 WG1142818-4								
Vinyl chloride	76		76		55-140	0		20
Chloroethane	90		90		55-138	0		20
1,1-Dichloroethene	90		90		61-145	0		20
trans-1,2-Dichloroethene	94		97		70-130	3		20
Trichloroethene	97		99		70-130	2		20
1,2-Dichlorobenzene	92		96		70-130	4		20
1,3-Dichlorobenzene	93		93		70-130	0		20
1,4-Dichlorobenzene	92		93		70-130	1		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	99		96		70-130	3		20
Dibromomethane	99		100		70-130	1		20
1,2,3-Trichloropropane	96		100		64-130	4		20
Acrylonitrile	100		120		70-130	18		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	75		74		36-147	1		20
Acetone	100		120		58-148	18		20
Carbon disulfide	93		99		51-130	6		20
2-Butanone	120		130		63-138	8		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	76		87		59-130	13		20
2-Hexanone	88		100		57-130	13		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829793

Project Number: 170505501

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1142818-3 WG1142818-4								
Bromochloromethane	90		95		70-130	5		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	87		91		70-130	4		20
1,3-Dichloropropane	84		89		70-130	6		20
1,1,1,2-Tetrachloroethane	87		86		64-130	1		20
Bromobenzene	86		86		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	96		94		70-130	2		20
o-Chlorotoluene	100		99		70-130	1		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	84		95		41-144	12		20
Hexachlorobutadiene	120		120		63-130	0		20
Isopropylbenzene	96		94		70-130	2		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	150	Q	170	Q	70-130	13		20
n-Propylbenzene	100		99		69-130	1		20
1,2,3-Trichlorobenzene	230	Q	260	Q	70-130	12		20
1,2,4-Trichlorobenzene	120		120		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
1,4-Dioxane	162		178	Q	56-162	9		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1142818-3 WG1142818-4								
p-Ethyltoluene	100		98		70-130	2		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	94		100		59-134	6		20
trans-1,4-Dichloro-2-butene	91		96		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		116		70-130
Toluene-d8	89		89		70-130
4-Bromofluorobenzene	113		112		70-130
Dibromofluoromethane	107		109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1144150-3 WG1144150-4								
Methylene chloride	113		114		70-130	1		30
1,1-Dichloroethane	124		120		70-130	3		30
Chloroform	114		112		70-130	2		30
Carbon tetrachloride	103		104		70-130	1		30
1,2-Dichloropropane	120		116		70-130	3		30
Dibromochloromethane	94		94		70-130	0		30
1,1,2-Trichloroethane	111		108		70-130	3		30
Tetrachloroethene	86		87		70-130	1		30
Chlorobenzene	93		93		70-130	0		30
Trichlorofluoromethane	112		111		70-139	1		30
1,2-Dichloroethane	128		124		70-130	3		30
1,1,1-Trichloroethane	112		110		70-130	2		30
Bromodichloromethane	112		114		70-130	2		30
trans-1,3-Dichloropropene	109		106		70-130	3		30
cis-1,3-Dichloropropene	115		115		70-130	0		30
1,1-Dichloropropene	108		110		70-130	2		30
Bromoform	96		94		70-130	2		30
1,1,1,2-Tetrachloroethane	112		107		70-130	5		30
Benzene	110		109		70-130	1		30
Toluene	102		100		70-130	2		30
Ethylbenzene	102		99		70-130	3		30
Chloromethane	125		121		52-130	3		30
Bromomethane	98		97		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1144150-3 WG1144150-4								
Vinyl chloride	140	Q	135	Q	67-130	4		30
Chloroethane	155	Q	147		50-151	5		30
1,1-Dichloroethene	104		104		65-135	0		30
trans-1,2-Dichloroethene	107		104		70-130	3		30
Trichloroethene	103		103		70-130	0		30
1,2-Dichlorobenzene	91		87		70-130	4		30
1,3-Dichlorobenzene	91		87		70-130	4		30
1,4-Dichlorobenzene	87		85		70-130	2		30
Methyl tert butyl ether	98		101		66-130	3		30
p/m-Xylene	100		98		70-130	2		30
o-Xylene	97		96		70-130	1		30
cis-1,2-Dichloroethene	105		102		70-130	3		30
Dibromomethane	107		103		70-130	4		30
Styrene	103		101		70-130	2		30
Dichlorodifluoromethane	103		102		30-146	1		30
Acetone	136		120		54-140	13		30
Carbon disulfide	112		111		59-130	1		30
2-Butanone	103		74		70-130	33	Q	30
Vinyl acetate	116		114		70-130	2		30
4-Methyl-2-pentanone	103		102		70-130	1		30
1,2,3-Trichloropropane	113		110		68-130	3		30
2-Hexanone	75		79		70-130	5		30
Bromochloromethane	93		92		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1144150-3 WG1144150-4								
2,2-Dichloropropane	120		119		70-130	1		30
1,2-Dibromoethane	96		95		70-130	1		30
1,3-Dichloropropane	108		110		69-130	2		30
1,1,1,2-Tetrachloroethane	97		94		70-130	3		30
Bromobenzene	89		87		70-130	2		30
n-Butylbenzene	108		104		70-130	4		30
sec-Butylbenzene	102		98		70-130	4		30
tert-Butylbenzene	93		88		70-130	6		30
o-Chlorotoluene	106		102		70-130	4		30
p-Chlorotoluene	105		101		70-130	4		30
1,2-Dibromo-3-chloropropane	95		89		68-130	7		30
Hexachlorobutadiene	105		99		67-130	6		30
Isopropylbenzene	97		93		70-130	4		30
p-Isopropyltoluene	94		89		70-130	5		30
Naphthalene	80		78		70-130	3		30
Acrylonitrile	110		111		70-130	1		30
n-Propylbenzene	104		99		70-130	5		30
1,2,3-Trichlorobenzene	91		86		70-130	6		30
1,2,4-Trichlorobenzene	85		80		70-130	6		30
1,3,5-Trimethylbenzene	104		99		70-130	5		30
1,2,4-Trimethylbenzene	103		99		70-130	4		30
1,4-Dioxane	101		109		65-136	8		30
p-Diethylbenzene	87		82		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1144150-3 WG1144150-4								
p-Ethyltoluene	99		95		70-130	4		30
1,2,4,5-Tetramethylbenzene	81		79		70-130	3		30
Ethyl ether	105		102		67-130	3		30
trans-1,4-Dichloro-2-butene	130		139	Q	70-130	7		30

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	116		115		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	114		110		70-130
Dibromofluoromethane	97		96		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

SAMPLE RESULTS

Lab ID: L1829793-01
Client ID: RSB31_6-7
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 14:40
Date Received: 08/01/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/07/18 01:49
Analyst: EK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 08/05/18 21:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	35.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	71.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1

Project Name: 4650 BROADWAY

Lab Number: L1829793

Project Number: 170505501

Report Date: 08/08/18

SAMPLE RESULTS

Lab ID: L1829793-01
 Client ID: RSB31_6-7
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 14:40
 Date Received: 08/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	85.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	440	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

SAMPLE RESULTS

Lab ID: L1829793-01
Client ID: RSB31_6-7
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 14:40
Date Received: 08/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	66		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/06/18 22:26
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 08/05/18 20:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1143142-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/06/18 22:26
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 08/05/18 20:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1143142-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/06/18 22:26
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 08/05/18 20:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1143142-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	87		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829793

Project Number: 170505501

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1143142-2 WG1143142-3								
Acenaphthene	84		82		31-137	2		50
1,2,4-Trichlorobenzene	77		76		38-107	1		50
Hexachlorobenzene	84		84		40-140	0		50
Bis(2-chloroethyl)ether	82		83		40-140	1		50
2-Chloronaphthalene	86		82		40-140	5		50
1,2-Dichlorobenzene	80		77		40-140	4		50
1,3-Dichlorobenzene	78		76		40-140	3		50
1,4-Dichlorobenzene	78		75		28-104	4		50
3,3'-Dichlorobenzidine	74		66		40-140	11		50
2,4-Dinitrotoluene	88		89		40-132	1		50
2,6-Dinitrotoluene	87		83		40-140	5		50
Fluoranthene	86		83		40-140	4		50
4-Chlorophenyl phenyl ether	80		81		40-140	1		50
4-Bromophenyl phenyl ether	84		83		40-140	1		50
Bis(2-chloroisopropyl)ether	87		87		40-140	0		50
Bis(2-chloroethoxy)methane	84		85		40-117	1		50
Hexachlorobutadiene	82		79		40-140	4		50
Hexachlorocyclopentadiene	77		72		40-140	7		50
Hexachloroethane	79		79		40-140	0		50
Isophorone	86		86		40-140	0		50
Naphthalene	82		79		40-140	4		50
Nitrobenzene	84		83		40-140	1		50
NDPA/DPA	84		85		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1143142-2 WG1143142-3								
n-Nitrosodi-n-propylamine	87		86		32-121	1		50
Bis(2-ethylhexyl)phthalate	94		92		40-140	2		50
Butyl benzyl phthalate	94		89		40-140	5		50
Di-n-butylphthalate	89		86		40-140	3		50
Di-n-octylphthalate	98		93		40-140	5		50
Diethyl phthalate	87		87		40-140	0		50
Dimethyl phthalate	86		84		40-140	2		50
Benzo(a)anthracene	84		82		40-140	2		50
Benzo(a)pyrene	91		85		40-140	7		50
Benzo(b)fluoranthene	89		84		40-140	6		50
Benzo(k)fluoranthene	85		79		40-140	7		50
Chrysene	86		83		40-140	4		50
Acenaphthylene	84		82		40-140	2		50
Anthracene	88		84		40-140	5		50
Benzo(ghi)perylene	86		81		40-140	6		50
Fluorene	84		83		40-140	1		50
Phenanthrene	84		83		40-140	1		50
Dibenzo(a,h)anthracene	88		82		40-140	7		50
Indeno(1,2,3-cd)pyrene	87		84		40-140	4		50
Pyrene	85		81		35-142	5		50
Biphenyl	90		87		54-104	3		50
4-Chloroaniline	81		79		40-140	3		50
2-Nitroaniline	89		88		47-134	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829793

Project Number: 170505501

Report Date: 08/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1143142-2 WG1143142-3								
3-Nitroaniline	74		72		26-129	3		50
4-Nitroaniline	84		83		41-125	1		50
Dibenzofuran	83		82		40-140	1		50
2-Methylnaphthalene	82		80		40-140	2		50
1,2,4,5-Tetrachlorobenzene	85		81		40-117	5		50
Acetophenone	88		87		14-144	1		50
2,4,6-Trichlorophenol	87		84		30-130	4		50
p-Chloro-m-cresol	92		89		26-103	3		50
2-Chlorophenol	85		82		25-102	4		50
2,4-Dichlorophenol	86		87		30-130	1		50
2,4-Dimethylphenol	90		89		30-130	1		50
2-Nitrophenol	83		82		30-130	1		50
4-Nitrophenol	101		100		11-114	1		50
2,4-Dinitrophenol	81		79		4-130	3		50
4,6-Dinitro-o-cresol	82		82		10-130	0		50
Pentachlorophenol	80		77		17-109	4		50
Phenol	85		83		26-90	2		50
2-Methylphenol	86		85		30-130.	1		50
3-Methylphenol/4-Methylphenol	86		84		30-130	2		50
2,4,5-Trichlorophenol	87		84		30-130	4		50
Benzoic Acid	73		75		10-110	3		50
Benzyl Alcohol	90		89		40-140	1		50
Carbazole	88		85		54-128	3		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1143142-2 WG1143142-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	86		86		25-120
Phenol-d6	88		87		10-120
Nitrobenzene-d5	84		86		23-120
2-Fluorobiphenyl	85		80		30-120
2,4,6-Tribromophenol	86		87		10-136
4-Terphenyl-d14	84		78		18-120

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

SAMPLE RESULTS

Lab ID: L1829793-01

Client ID: RSB31_6-7

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/01/18 14:40

Date Received: 08/01/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	08/03/18 02:02	121,2540G	FN



Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829793

Report Date: 08/08/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1142494-1 QC Sample: L1829718-26 Client ID: DUP Sample						
Solids, Total	74.1	75.4	%	2		20

Project Name: 4650 BROADWAY**Lab Number:** L1829793**Project Number:** 170505501**Report Date:** 08/08/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1829793-01A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L1829793-01B	Vial water preserved	A	NA		3.4	Y	Absent	02-AUG-18 12:57	NYTCL-8260HLW(14)
L1829793-01C	Vial water preserved	A	NA		3.4	Y	Absent	02-AUG-18 12:57	NYTCL-8260HLW(14)
L1829793-01D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L1829793-01E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)
L1829793-02A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L1829793-02B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829793
Report Date: 08/08/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1829932
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	08/09/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1829932-01	RSB30_5-6	SOIL	4650 BROADWAY, NY, NY	08/02/18 11:20	08/02/18
L1829932-02	RSBTB09_080218	WATER	4650 BROADWAY, NY, NY	08/02/18 00:00	08/02/18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

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.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 08/09/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-01
 Client ID: RSB30_5-6
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 11:20
 Date Received: 08/02/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/08/18 04:15
 Analyst: NLK
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.97	0.52	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 4650 BROADWAY

Lab Number: L1829932

Project Number: 170505501

Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-01
 Client ID: RSB30_5-6
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 11:20
 Date Received: 08/02/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.88	1
Acetone	ND		ug/kg	9.7	4.6	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.1	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.10	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-01
Client ID: RSB30_5-6
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 11:20
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	97	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-02
Client ID: RSBTB09_080218
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 00:00
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/06/18 12:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1829932

Project Number: 170505501

Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-02
 Client ID: RSBTB09_080218
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 00:00
 Date Received: 08/02/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-02
Client ID: RSBTB09_080218
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 00:00
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	127		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	114		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 11:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1143437-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 11:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1143437-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 11:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1143437-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	124		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	111		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/07/18 20:45
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1144207-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/07/18 20:45
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1144207-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/07/18 20:45
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1144207-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829932

Project Number: 170505501

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1143437-3 WG1143437-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	120		110		63-132	9		20
1,2-Dichloropropane	96		99		70-130	3		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	83		83		70-130	0		20
Chlorobenzene	96		96		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	120		110		67-130	9		20
Bromodichloromethane	120		120		67-130	0		20
trans-1,3-Dichloropropene	98		99		70-130	1		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	86		86		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	100		95		64-130	5		20
Bromomethane	120		120		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829932

Project Number: 170505501

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1143437-3 WG1143437-4								
Vinyl chloride	83		85		55-140	2		20
Chloroethane	98		100		55-138	2		20
1,1-Dichloroethene	99		98		61-145	1		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	98		98		70-130	0		20
1,4-Dichlorobenzene	97		96		70-130	1		20
Methyl tert butyl ether	120		120		63-130	0		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	120		120		70-130	0		20
1,2,3-Trichloropropane	120		120		64-130	0		20
Acrylonitrile	120		130		70-130	8		20
Styrene	115		110		70-130	4		20
Dichlorodifluoromethane	87		82		36-147	6		20
Acetone	140		150	Q	58-148	7		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	150	Q	160	Q	63-138	6		20
Vinyl acetate	130		130		70-130	0		20
4-Methyl-2-pentanone	97		100		59-130	3		20
2-Hexanone	100		100		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1143437-3 WG1143437-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	100		110		70-130	10		20
1,3-Dichloropropane	97		100		70-130	3		20
1,1,1,2-Tetrachloroethane	95		97		64-130	2		20
Bromobenzene	91		90		70-130	1		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	110		110		41-144	0		20
Hexachlorobutadiene	130		130		63-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	110		100		70-130	10		20
Naphthalene	150	Q	170	Q	70-130	13		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	160	Q	200	Q	70-130	22	Q	20
1,2,4-Trichlorobenzene	120		120		70-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	190	Q	190	Q	56-162	0		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1143437-3 WG1143437-4								
p-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	110		110		70-130	0		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	120		122		70-130
Toluene-d8	88		89		70-130
4-Bromofluorobenzene	112		113		70-130
Dibromofluoromethane	111		112		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1144207-3 WG1144207-4								
Methylene chloride	86		87		70-130	1		30
1,1-Dichloroethane	92		93		70-130	1		30
Chloroform	96		98		70-130	2		30
Carbon tetrachloride	96		98		70-130	2		30
1,2-Dichloropropane	95		96		70-130	1		30
Dibromochloromethane	100		98		70-130	2		30
1,1,2-Trichloroethane	102		102		70-130	0		30
Tetrachloroethene	95		95		70-130	0		30
Chlorobenzene	93		94		70-130	1		30
Trichlorofluoromethane	98		98		70-139	0		30
1,2-Dichloroethane	99		100		70-130	1		30
1,1,1-Trichloroethane	96		98		70-130	2		30
Bromodichloromethane	99		101		70-130	2		30
trans-1,3-Dichloropropene	90		90		70-130	0		30
cis-1,3-Dichloropropene	98		100		70-130	2		30
1,1-Dichloropropene	98		99		70-130	1		30
Bromoform	100		100		70-130	0		30
1,1,2,2-Tetrachloroethane	105		104		70-130	1		30
Benzene	93		94		70-130	1		30
Toluene	92		93		70-130	1		30
Ethylbenzene	94		94		70-130	0		30
Chloromethane	86		83		52-130	4		30
Bromomethane	91		88		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1144207-3 WG1144207-4								
Vinyl chloride	88		88		67-130	0		30
Chloroethane	92		92		50-151	0		30
1,1-Dichloroethene	90		91		65-135	1		30
trans-1,2-Dichloroethene	90		90		70-130	0		30
Trichloroethene	96		98		70-130	2		30
1,2-Dichlorobenzene	97		96		70-130	1		30
1,3-Dichlorobenzene	96		96		70-130	0		30
1,4-Dichlorobenzene	95		95		70-130	0		30
Methyl tert butyl ether	95		95		66-130	0		30
p/m-Xylene	95		95		70-130	0		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	94		94		70-130	0		30
Dibromomethane	99		102		70-130	3		30
Styrene	98		99		70-130	1		30
Dichlorodifluoromethane	82		80		30-146	2		30
Acetone	102		95		54-140	7		30
Carbon disulfide	87		88		59-130	1		30
2-Butanone	115		112		70-130	3		30
Vinyl acetate	99		100		70-130	1		30
4-Methyl-2-pentanone	93		92		70-130	1		30
1,2,3-Trichloropropane	104		103		68-130	1		30
2-Hexanone	91		88		70-130	3		30
Bromochloromethane	98		98		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1144207-3 WG1144207-4								
2,2-Dichloropropane	95		95		70-130	0		30
1,2-Dibromoethane	100		101		70-130	1		30
1,3-Dichloropropane	99		100		69-130	1		30
1,1,1,2-Tetrachloroethane	98		100		70-130	2		30
Bromobenzene	98		96		70-130	2		30
n-Butylbenzene	98		96		70-130	2		30
sec-Butylbenzene	97		97		70-130	0		30
tert-Butylbenzene	97		96		70-130	1		30
o-Chlorotoluene	81		80		70-130	1		30
p-Chlorotoluene	95		95		70-130	0		30
1,2-Dibromo-3-chloropropane	91		93		68-130	2		30
Hexachlorobutadiene	93		93		67-130	0		30
Isopropylbenzene	98		96		70-130	2		30
p-Isopropyltoluene	96		96		70-130	0		30
Naphthalene	99		96		70-130	3		30
Acrylonitrile	85		86		70-130	1		30
n-Propylbenzene	98		97		70-130	1		30
1,2,3-Trichlorobenzene	96		95		70-130	1		30
1,2,4-Trichlorobenzene	97		95		70-130	2		30
1,3,5-Trimethylbenzene	97		95		70-130	2		30
1,2,4-Trimethylbenzene	99		96		70-130	3		30
1,4-Dioxane	123		123		65-136	0		30
p-Diethylbenzene	96		96		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1144207-3 WG1144207-4								
p-Ethyltoluene	100		97		70-130	3		30
1,2,4,5-Tetramethylbenzene	94		93		70-130	1		30
Ethyl ether	93		93		67-130	0		30
trans-1,4-Dichloro-2-butene	97		95		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	104		101		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-01
Client ID: RSB30_5-6
Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 11:20
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/08/18 18:15
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 4650 BROADWAY

Lab Number: L1829932

Project Number: 170505501

Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-01
 Client ID: RSB30_5-6
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 11:20
 Date Received: 08/02/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-01
 Client ID: RSB30_5-6
 Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 11:20
 Date Received: 08/02/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	80		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/08/18 10:42
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1143573-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/08/18 10:42
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1143573-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 08/08/18 10:42
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1143573-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

Total TIC Compounds	288	J	ug/kg
Unknown	288	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1829932

Project Number: 170505501

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1143573-2 WG1143573-3								
Acenaphthene	75		52		31-137	36		50
1,2,4-Trichlorobenzene	67		46		38-107	37		50
Hexachlorobenzene	78		53		40-140	38		50
Bis(2-chloroethyl)ether	73		50		40-140	37		50
2-Chloronaphthalene	76		52		40-140	38		50
1,2-Dichlorobenzene	68		46		40-140	39		50
1,3-Dichlorobenzene	66		44		40-140	40		50
1,4-Dichlorobenzene	64		44		28-104	37		50
3,3'-Dichlorobenzidine	78		54		40-140	36		50
2,4-Dinitrotoluene	79		57		40-132	32		50
2,6-Dinitrotoluene	79		56		40-140	34		50
Fluoranthene	76		52		40-140	38		50
4-Chlorophenyl phenyl ether	73		49		40-140	39		50
4-Bromophenyl phenyl ether	78		52		40-140	40		50
Bis(2-chloroisopropyl)ether	78		53		40-140	38		50
Bis(2-chloroethoxy)methane	75		52		40-117	36		50
Hexachlorobutadiene	71		49		40-140	37		50
Hexachlorocyclopentadiene	63		41		40-140	42		50
Hexachloroethane	68		45		40-140	41		50
Isophorone	77		53		40-140	37		50
Naphthalene	71		49		40-140	37		50
Nitrobenzene	75		51		40-140	38		50
NDPA/DPA	76		54		36-157	34		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1143573-2 WG1143573-3								
n-Nitrosodi-n-propylamine	77		52		32-121	39		50
Bis(2-ethylhexyl)phthalate	84		61		40-140	32		50
Butyl benzyl phthalate	84		57		40-140	38		50
Di-n-butylphthalate	81		56		40-140	36		50
Di-n-octylphthalate	87		62		40-140	34		50
Diethyl phthalate	80		56		40-140	35		50
Dimethyl phthalate	78		55		40-140	35		50
Benzo(a)anthracene	74		54		40-140	31		50
Benzo(a)pyrene	80		56		40-140	35		50
Benzo(b)fluoranthene	79		56		40-140	34		50
Benzo(k)fluoranthene	75		54		40-140	33		50
Chrysene	77		55		40-140	33		50
Acenaphthylene	73		51		40-140	35		50
Anthracene	77		54		40-140	35		50
Benzo(ghi)perylene	76		53		40-140	36		50
Fluorene	77		53		40-140	37		50
Phenanthrene	76		53		40-140	36		50
Dibenzo(a,h)anthracene	77		54		40-140	35		50
Indeno(1,2,3-cd)pyrene	78		54		40-140	36		50
Pyrene	75		52		35-142	36		50
Biphenyl	80		55		54-104	37		50
4-Chloroaniline	81		56		40-140	36		50
2-Nitroaniline	79		56		47-134	34		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1143573-2 WG1143573-3								
3-Nitroaniline	73		51		26-129	35		50
4-Nitroaniline	78		54		41-125	36		50
Dibenzofuran	75		51		40-140	38		50
2-Methylnaphthalene	73		51		40-140	35		50
1,2,4,5-Tetrachlorobenzene	74		52		40-117	35		50
Acetophenone	77		54		14-144	35		50
2,4,6-Trichlorophenol	79		56		30-130	34		50
p-Chloro-m-cresol	81		58		26-103	33		50
2-Chlorophenol	74		51		25-102	37		50
2,4-Dichlorophenol	76		54		30-130	34		50
2,4-Dimethylphenol	79		55		30-130	36		50
2-Nitrophenol	74		51		30-130	37		50
4-Nitrophenol	91		62		11-114	38		50
2,4-Dinitrophenol	66		48		4-130	32		50
4,6-Dinitro-o-cresol	75		51		10-130	38		50
Pentachlorophenol	73		50		17-109	37		50
Phenol	74		51		26-90	37		50
2-Methylphenol	77		52		30-130	39		50
3-Methylphenol/4-Methylphenol	78		52		30-130	40		50
2,4,5-Trichlorophenol	77		54		30-130	35		50
Benzoic Acid	53		37		10-110	36		50
Benzyl Alcohol	80		53		40-140	41		50
Carbazole	80		54		54-128	39		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1143573-2 WG1143573-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		56		25-120
Phenol-d6	88		60		10-120
Nitrobenzene-d5	84		58		23-120
2-Fluorobiphenyl	82		57		30-120
2,4,6-Tribromophenol	88		62		10-136
4-Terphenyl-d14	82		57		18-120

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

SAMPLE RESULTS

Lab ID: L1829932-01

Client ID: RSB30_5-6

Sample Location: 4650 BROADWAY, NY, NY

Date Collected: 08/02/18 11:20

Date Received: 08/02/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	08/04/18 11:54	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1829932

Report Date: 08/09/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1142959-1 QC Sample: L1829591-01 Client ID: DUP Sample						
Solids, Total	88.2	87.7	%	1		20

Project Name: 4650 BROADWAY

Project Number: 170505501

Serial_No:08091811:56

Lab Number: L1829932

Report Date: 08/09/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1829932-01A	Vial MeOH preserved	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1829932-01B	Vial water preserved	A	NA		2.5	Y	Absent	03-AUG-18 17:00	NYTCL-8260HLW(14)
L1829932-01C	Vial water preserved	A	NA		2.5	Y	Absent	03-AUG-18 17:00	NYTCL-8260HLW(14)
L1829932-01D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1829932-01E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14)
L1829932-02A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L1829932-02B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1829932
Report Date: 08/09/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 8/2/18		ALPHA Job # L1829932	
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: 4650 Broadway Project Location: 4650 Broadway NY, NY Project # 170505501 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	
Client Information Client: LANGAN Address: 300 W. 31st St 8FL NY, NY Phone: 212-479-5400 Fax: 212-479-5444 Email: J.Leung@langan.com		Project Manager: Julia Leung ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other TCL <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
These samples have been previously analyzed by Alpha <input type="checkbox"/>						ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)	
Other project specific requirements/comments:						TLL VOCs/PAA375 PAA375/KL5VOC		T o t a l B o t t l e	
Please specify Metals or TAL.									
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials	
29932 - 01		RSB30-5-6		8/2/18 1120		S		DP	
02		RSBTBO9-080213		8/2/18		PAA		X	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative	
Relinquished By:		Date/Time		Received By:		Date/Time		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
[Signature]		8/2/18 1305		[Signature]		8/2/18 1310			
[Signature]		8/2/18 1755		D. Santos AAL		8/2/18 1815			
D. Santos AAL		8/2/18 2230		[Signature]		8/2/18 2236			



ANALYTICAL REPORT

Lab Number:	L1830626
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	08/15/18

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), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1830626-01	RMW18_080718	WATER	4650 BROADWAY , NY, NY	08/07/18 09:55	08/07/18
L1830626-02	RMW16_080718	WATER	4650 BROADWAY , NY, NY	08/07/18 11:35	08/07/18
L1830626-03	RMW30_080718	WATER	4650 BROADWAY , NY, NY	08/07/18 13:10	08/07/18
L1830626-04	RMW28_080718	WATER	4650 BROADWAY , NY, NY	08/07/18 15:05	08/07/18
L1830626-05	RGWDUP02_080718	WATER	4650 BROADWAY , NY, NY	08/07/18 00:00	08/07/18
L1830626-06	RGWTB01_080718	WATER	4650 BROADWAY , NY, NY	08/07/18 00:00	08/07/18
L1830626-07	RGWFB01_080718	WATER	4650 BROADWAY , NY, NY	08/07/18 15:00	08/07/18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

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

L1830626-05: The surrogate recovery for 1,2-dichloroethane-d4 (137%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

Semivolatile Organics

The WG1145610-4/-5 MS/MSD recoveries, performed on L1830626-03, are below the acceptance criteria for 3,3'-dichlorobenzidine (0%/0%) due to the concentration of this compound falling below the reported detection limit.

Total Organic Carbon

L1830626-02: The sample has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Melissa Cripps

Title: Technical Director/Representative

Date: 08/15/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-01
 Client ID: RMW18_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 09:55
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/09/18 16:42
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-01
 Client ID: RMW18_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 09:55
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	18		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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	0.78	J	ug/l	2.5	0.70	1
sec-Butylbenzene	1.0	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	5.4		ug/l	2.5	0.70	1
p-Isopropyltoluene	0.72	J	ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-01
Client ID: RMW18_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 09:55
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	8.0		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	16		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	9.8		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	9.3		ug/l	2.0	0.70	1
p-Ethyltoluene	18		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	5.3		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	94		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-02 D
 Client ID: RMW16_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 11:35
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/09/18 17:08
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	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	1.3	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
1,3-Dichloropropene, Total	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
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	16	J	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	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-02 D
 Client ID: RMW16_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 11:35
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	5.0	1.8	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
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	140		ug/l	25	7.0	10
o-Xylene	36		ug/l	25	7.0	10
Xylenes, Total	180		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
1,2-Dichloroethene, Total	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	110		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	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	ND		ug/l	25	7.0	10
sec-Butylbenzene	7.8	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	31		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	25		ug/l	25	7.0	10

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-02 D
 Client ID: RMW16_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 11:35
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	80		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	220		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	800		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	73		ug/l	20	7.0	10
p-Ethyltoluene	390		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	27		ug/l	20	5.4	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	99		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	92		70-130

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-03
 Client ID: RMW30_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 13:10
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/09/18 14:26
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-03
 Client ID: RMW30_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 13:10
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	7.0		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-03
Client ID: RMW30_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 13:10
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	130		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-04
Client ID: RMW28_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:05
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/09/18 15:17
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	2.4		ug/l	0.50	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-04
 Client ID: RMW28_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:05
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	9.1		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-04
Client ID: RMW28_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:05
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	123		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	98		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-05
 Client ID: RGWDUP02_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 00:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/09/18 14:52
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-05
 Client ID: RGWDUP02_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 00:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	29		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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	0.94	J	ug/l	2.5	0.70	1
sec-Butylbenzene	1.4	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	7.3		ug/l	2.5	0.70	1
p-Isopropyltoluene	1.2	J	ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-05
Client ID: RGWDUP02_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 00:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	11		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	19		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	12		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	11		ug/l	2.0	0.70	1
p-Ethyltoluene	22		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	6.3		ug/l	2.0	0.54	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	137	Q	70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	91		70-130

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-06
 Client ID: RGWTB01_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 00:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/09/18 15:43
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-06
 Client ID: RGWTB01_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 00:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-06
 Client ID: RGWTB01_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 00:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	125		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	100		70-130

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-07
 Client ID: RGWFB01_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/09/18 16:08
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-07
 Client ID: RGWFB01_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.4	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-07
Client ID: RGWFB01_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	128		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/09/18 08:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1144319-10					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/09/18 08:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1144319-10					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
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Method Blank Analysis
Batch Quality Control

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Analytical Date: 08/09/18 08:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1144319-10					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/09/18 10:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-07 Batch: WG1144787-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/09/18 10:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-07 Batch: WG1144787-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/09/18 10:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-07 Batch: WG1144787-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	124		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1830626

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Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1144319-8 WG1144319-9								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	91		91		70-130	0		20
Chloroform	90		90		70-130	0		20
Carbon tetrachloride	85		85		63-132	0		20
1,2-Dichloropropane	90		91		70-130	1		20
Dibromochloromethane	83		81		63-130	2		20
1,1,2-Trichloroethane	98		96		70-130	2		20
Tetrachloroethene	86		85		70-130	1		20
Chlorobenzene	96		95		75-130	1		20
Trichlorofluoromethane	96		95		62-150	1		20
1,2-Dichloroethane	90		89		70-130	1		20
1,1,1-Trichloroethane	86		86		67-130	0		20
Bromodichloromethane	88		88		67-130	0		20
trans-1,3-Dichloropropene	89		88		70-130	1		20
cis-1,3-Dichloropropene	87		87		70-130	0		20
1,1-Dichloropropene	83		84		70-130	1		20
Bromoform	84		84		54-136	0		20
1,1,1,2-Tetrachloroethane	92		92		67-130	0		20
Benzene	86		87		70-130	1		20
Toluene	93		93		70-130	0		20
Ethylbenzene	92		92		70-130	0		20
Chloromethane	87		86		64-130	1		20
Bromomethane	73		67		39-139	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

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Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1144319-8 WG1144319-9								
Vinyl chloride	90		90		55-140	0		20
Chloroethane	92		89		55-138	3		20
1,1-Dichloroethene	84		83		61-145	1		20
trans-1,2-Dichloroethene	83		84		70-130	1		20
Trichloroethene	82		81		70-130	1		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,3-Dichlorobenzene	96		97		70-130	1		20
1,4-Dichlorobenzene	96		97		70-130	1		20
Methyl tert butyl ether	78		78		63-130	0		20
p/m-Xylene	90		95		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	83		86		70-130	4		20
Dibromomethane	84		83		70-130	1		20
1,2,3-Trichloropropane	88		89		64-130	1		20
Acrylonitrile	86		86		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	91		89		36-147	2		20
Acetone	94		90		58-148	4		20
Carbon disulfide	88		87		51-130	1		20
2-Butanone	81		80		63-138	1		20
Vinyl acetate	89		89		70-130	0		20
4-Methyl-2-pentanone	75		78		59-130	4		20
2-Hexanone	72		71		57-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1144319-8 WG1144319-9								
Bromochloromethane	91		90		70-130	1		20
2,2-Dichloropropane	92		92		63-133	0		20
1,2-Dibromoethane	85		84		70-130	1		20
1,3-Dichloropropane	91		90		70-130	1		20
1,1,1,2-Tetrachloroethane	94		94		64-130	0		20
Bromobenzene	92		94		70-130	2		20
n-Butylbenzene	94		94		53-136	0		20
sec-Butylbenzene	88		90		70-130	2		20
tert-Butylbenzene	88		88		70-130	0		20
o-Chlorotoluene	98		99		70-130	1		20
p-Chlorotoluene	97		99		70-130	2		20
1,2-Dibromo-3-chloropropane	73		74		41-144	1		20
Hexachlorobutadiene	87		86		63-130	1		20
Isopropylbenzene	88		89		70-130	1		20
p-Isopropyltoluene	89		89		70-130	0		20
Naphthalene	65	Q	67	Q	70-130	3		20
n-Propylbenzene	93		93		69-130	0		20
1,2,3-Trichlorobenzene	76		77		70-130	1		20
1,2,4-Trichlorobenzene	80		82		70-130	2		20
1,3,5-Trimethylbenzene	94		94		64-130	0		20
1,2,4-Trimethylbenzene	94		97		70-130	3		20
1,4-Dioxane	74		80		56-162	8		20
p-Diethylbenzene	94		93		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1144319-8 WG1144319-9								
p-Ethyltoluene	97		97		70-130	0		20
1,2,4,5-Tetramethylbenzene	90		91		70-130	1		20
Ethyl ether	80		81		59-134	1		20
trans-1,4-Dichloro-2-butene	78		78		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		99		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1830626

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 Batch: WG1144787-3 WG1144787-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	120		110		70-130	9		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	120		110		63-132	9		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	110		110		63-130	0		20
1,1,2-Trichloroethane	110		120		70-130	9		20
Tetrachloroethene	100		99		70-130	1		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	130		130		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	110		120		70-130	9		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	100		110		54-136	10		20
1,1,1,2,2-Tetrachloroethane	110		120		67-130	9		20
Benzene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20
Ethylbenzene	120		110		70-130	9		20
Chloromethane	120		110		64-130	9		20
Bromomethane	93		96		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 Batch: WG1144787-3 WG1144787-4								
Vinyl chloride	120		120		55-140	0		20
Chloroethane	150	Q	150	Q	55-138	0		20
1,1-Dichloroethene	98		96		61-145	2		20
trans-1,2-Dichloroethene	99		96		70-130	3		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	99		98		70-130	1		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	120		140	Q	64-130	15		20
Acrylonitrile	110		120		70-130	9		20
Styrene	115		115		70-130	0		20
Dichlorodifluoromethane	91		90		36-147	1		20
Acetone	130		130		58-148	0		20
Carbon disulfide	100		99		51-130	1		20
2-Butanone	110		130		63-138	17		20
Vinyl acetate	160	Q	170	Q	70-130	6		20
4-Methyl-2-pentanone	99		110		59-130	11		20
2-Hexanone	110		120		57-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 Batch: WG1144787-3 WG1144787-4								
Bromochloromethane	97		94		70-130	3		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	100		110		70-130	10		20
1,3-Dichloropropane	110		120		70-130	9		20
1,1,1,2-Tetrachloroethane	110		110		64-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	120		120		53-136	0		20
sec-Butylbenzene	120		120		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	120		120		70-130	0		20
p-Chlorotoluene	120		120		70-130	0		20
1,2-Dibromo-3-chloropropane	83		91		41-144	9		20
Hexachlorobutadiene	90		90		63-130	0		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	84		96		70-130	13		20
n-Propylbenzene	120		120		69-130	0		20
1,2,3-Trichlorobenzene	88		95		70-130	8		20
1,2,4-Trichlorobenzene	92		95		70-130	3		20
1,3,5-Trimethylbenzene	120		120		64-130	0		20
1,2,4-Trimethylbenzene	110		120		70-130	9		20
1,4-Dioxane	34	Q	70		56-162	69	Q	20
p-Diethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 Batch: WG1144787-3 WG1144787-4								
p-Ethyltoluene	110		120		70-130	9		20
1,2,4,5-Tetramethylbenzene	100		110		70-130	10		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	120		130		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	122		122		70-130
Toluene-d8	106		105		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	102		102		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 QC Batch ID: WG1144787-6 WG1144787-7 QC Sample: L1830626-03 Client ID: RMW30_080718												
Methylene chloride	ND	10	11	110		9.6	96		70-130	14		20
1,1-Dichloroethane	ND	10	13	130		11	110		70-130	17		20
Chloroform	ND	10	13	130		11	110		70-130	17		20
Carbon tetrachloride	ND	10	12	120		10	100		63-132	18		20
1,2-Dichloropropane	ND	10	12	120		10	100		70-130	18		20
Dibromochloromethane	ND	10	11	110		10	100		63-130	10		20
1,1,2-Trichloroethane	ND	10	13	130		12	120		70-130	8		20
Tetrachloroethene	ND	10	9.6	96		8.4	84		70-130	13		20
Chlorobenzene	ND	10	11	110		9.6	96		75-130	14		20
Trichlorofluoromethane	ND	10	13	130		11	110		62-150	17		20
1,2-Dichloroethane	ND	10	15	150	Q	13	130		70-130	14		20
1,1,1-Trichloroethane	ND	10	12	120		11	110		67-130	9		20
Bromodichloromethane	ND	10	12	120		11	110		67-130	9		20
trans-1,3-Dichloropropene	ND	10	12	120		11	110		70-130	9		20
cis-1,3-Dichloropropene	ND	10	10	100		9.1	91		70-130	9		20
1,1-Dichloropropene	ND	10	11	110		9.6	96		70-130	14		20
Bromoform	ND	10	11	110		10	100		54-136	10		20
1,1,2,2-Tetrachloroethane	ND	10	13	130		12	120		67-130	8		20
Benzene	ND	10	11	110		10	100		70-130	10		20
Toluene	ND	10	11	110		9.9	99		70-130	11		20
Ethylbenzene	ND	10	11	110		10	100		70-130	10		20
Chloromethane	ND	10	12	120		11	110		64-130	9		20
Bromomethane	ND	10	6.7	67		8.2	82		39-139	20		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 QC Batch ID: WG1144787-6 WG1144787-7 QC Sample: L1830626-03 Client ID: RMW30_080718												
Vinyl chloride	ND	10	13	130		12	120		55-140	8		20
Chloroethane	ND	10	17	170	Q	15	150	Q	55-138	13		20
1,1-Dichloroethene	ND	10	9.9	99		9.0	90		61-145	10		20
trans-1,2-Dichloroethene	ND	10	10	100		8.9	89		70-130	12		20
Trichloroethene	ND	10	11	110		9.8	98		70-130	12		20
1,2-Dichlorobenzene	ND	10	11	110		9.7	97		70-130	13		20
1,3-Dichlorobenzene	ND	10	10	100		9.5	95		70-130	5		20
1,4-Dichlorobenzene	ND	10	11	110		9.7	97		70-130	13		20
Methyl tert butyl ether	ND	10	11	110		10	100		63-130	10		20
p/m-Xylene	ND	20	22	110		20	100		70-130	10		20
o-Xylene	ND	20	23	115		20	100		70-130	14		20
cis-1,2-Dichloroethene	ND	10	11	110		9.7	97		70-130	13		20
Dibromomethane	ND	10	12	120		10	100		70-130	18		20
1,2,3-Trichloropropane	ND	10	12	120		13	130		64-130	8		20
Acrylonitrile	ND	10	14	140	Q	12	120		70-130	15		20
Styrene	ND	20	23	115		21	105		70-130	9		20
Dichlorodifluoromethane	ND	10	9.3	93		8.3	83		36-147	11		20
Acetone	7.0	10	27	200	Q	20	130		58-148	30	Q	20
Carbon disulfide	ND	10	10	100		9.1	91		51-130	9		20
2-Butanone	ND	10	16	160	Q	14	140	Q	63-138	13		20
Vinyl acetate	ND	10	17	170	Q	15	150	Q	70-130	13		20
4-Methyl-2-pentanone	ND	10	13	130		11	110		59-130	17		20
2-Hexanone	ND	10	14	140	Q	13	130		57-130	7		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 QC Batch ID: WG1144787-6 WG1144787-7 QC Sample: L1830626-03 Client ID: RMW30_080718												
Bromochloromethane	ND	10	10	100		9.0	90		70-130	11		20
2,2-Dichloropropane	ND	10	9.6	96		8.2	82		63-133	16		20
1,2-Dibromoethane	ND	10	11	110		10	100		70-130	10		20
1,3-Dichloropropane	ND	10	12	120		11	110		70-130	9		20
1,1,1,2-Tetrachloroethane	ND	10	11	110		10	100		64-130	10		20
Bromobenzene	ND	10	10	100		9.2	92		70-130	8		20
n-Butylbenzene	ND	10	12	120		10	100		53-136	18		20
sec-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
tert-Butylbenzene	ND	10	10	100		9.4	94		70-130	6		20
o-Chlorotoluene	ND	10	11	110		10	100		70-130	10		20
p-Chlorotoluene	ND	10	11	110		10	100		70-130	10		20
1,2-Dibromo-3-chloropropane	ND	10	9.8	98		9.3	93		41-144	5		20
Hexachlorobutadiene	ND	10	8.4	84		7.5	75		63-130	11		20
Isopropylbenzene	ND	10	11	110		9.7	97		70-130	13		20
p-Isopropyltoluene	ND	10	10	100		9.3	93		70-130	7		20
Naphthalene	ND	10	10	100		9.4	94		70-130	6		20
n-Propylbenzene	ND	10	11	110		10	100		69-130	10		20
1,2,3-Trichlorobenzene	ND	10	9.7	97		8.9	89		70-130	9		20
1,2,4-Trichlorobenzene	ND	10	9.7	97		8.7	87		70-130	11		20
1,3,5-Trimethylbenzene	ND	10	11	110		10	100		64-130	10		20
1,2,4-Trimethylbenzene	ND	10	12	120		11	110		70-130	9		20
1,4-Dioxane	ND	500	260	52	Q	410	82		56-162	45	Q	20
p-Diethylbenzene	ND	10	11	110		9.3	93		70-130	17		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-07 QC Batch ID: WG1144787-6 WG1144787-7 QC Sample: L1830626-03 Client ID: RMW30_080718												
p-Ethyltoluene	ND	10	11	110		10	100		70-130	10		20
1,2,4,5-Tetramethylbenzene	ND	10	11	110		9.7	97		70-130	13		20
Ethyl ether	ND	10	11	110		10	100		59-134	10		20
trans-1,4-Dichloro-2-butene	ND	10	12	120		11	110		70-130	9		20

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	136	Q	130		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	104		104		70-130
Toluene-d8	105		106		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-01
 Client ID: RMW18_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 09:55
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 08/14/18 14:40
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-01
 Client ID: RMW18_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 09:55
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	12.	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	91		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-01
 Client ID: RMW18_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 09:55
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/13/18 19:07
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.24		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-01

Date Collected: 08/07/18 09:55

Client ID: RMW18_080718

Date Received: 08/07/18

Sample Location: 4650 BROADWAY , NY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	85		41-149

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-02
 Client ID: RMW16_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 11:35
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 08/14/18 05:03
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-02
Client ID: RMW16_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 11:35
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	84		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-02
 Client ID: RMW16_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 11:35
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/13/18 19:33
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.06	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	20		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.06	J	ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	8.5		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-02

Date Collected: 08/07/18 11:35

Client ID: RMW16_080718

Date Received: 08/07/18

Sample Location: 4650 BROADWAY , NY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	80		41-149

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-03
 Client ID: RMW30_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 13:10
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 08/14/18 05:30
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-03
Client ID: RMW30_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 13:10
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	97		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-03
 Client ID: RMW30_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 13:10
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/13/18 18:41
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-03
 Client ID: RMW30_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 13:10
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	89		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-04
Client ID: RMW28_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:05
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/14/18 05:58
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-04
 Client ID: RMW28_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:05
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	91		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-04
 Client ID: RMW28_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:05
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/13/18 19:59
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.07	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-04
 Client ID: RMW28_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:05
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	85		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-05
 Client ID: RGWDUP02_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 00:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 08/14/18 06:25
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-05
 Client ID: RGWDUP02_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 00:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	93		41-149

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-05
 Client ID: RGWDUP02_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 00:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/13/18 20:25
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.28		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-05

Date Collected: 08/07/18 00:00

Client ID: RGWDUP02_080718

Date Received: 08/07/18

Sample Location: 4650 BROADWAY , NY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	87		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-07
Client ID: RGWFB01_080718
Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/14/18 06:53
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-07
 Client ID: RGWFB01_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	93		41-149

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-07
 Client ID: RGWFB01_080718
 Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:00
 Date Received: 08/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/13/18 20:51
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**SAMPLE RESULTS**

Lab ID: L1830626-07

Date Collected: 08/07/18 15:00

Client ID: RGWFB01_080718

Date Received: 08/07/18

Sample Location: 4650 BROADWAY , NY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	88		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/14/18 01:22
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG1145610-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/14/18 01:22
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG1145610-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/14/18 01:22
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG1145610-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Tentatively Identified Compounds

Total TIC Compounds	18.5	J	ug/l
Aldol Condensates	18.5	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	88		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/13/18 16:31
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05,07 Batch: WG1145700-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/13/18 16:31
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05,07 Batch: WG1145700-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	91		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1145610-2 WG1145610-3								
Acenaphthene	85		80		37-111	6		30
1,2,4-Trichlorobenzene	68		67		39-98	1		30
Hexachlorobenzene	81		78		40-140	4		30
Bis(2-chloroethyl)ether	73		74		40-140	1		30
2-Chloronaphthalene	76		74		40-140	3		30
1,2-Dichlorobenzene	67		67		40-140	0		30
1,3-Dichlorobenzene	66		65		40-140	2		30
1,4-Dichlorobenzene	65		65		36-97	0		30
3,3'-Dichlorobenzidine	69		66		40-140	4		30
2,4-Dinitrotoluene	80		76		48-143	5		30
2,6-Dinitrotoluene	78		78		40-140	0		30
Fluoranthene	81		77		40-140	5		30
4-Chlorophenyl phenyl ether	83		78		40-140	6		30
4-Bromophenyl phenyl ether	80		78		40-140	3		30
Bis(2-chloroisopropyl)ether	76		76		40-140	0		30
Bis(2-chloroethoxy)methane	73		74		40-140	1		30
Hexachlorobutadiene	71		71		40-140	0		30
Hexachlorocyclopentadiene	61		56		40-140	9		30
Hexachloroethane	67		66		40-140	2		30
Isophorone	73		74		40-140	1		30
Naphthalene	76		74		40-140	3		30
Nitrobenzene	72		76		40-140	5		30
NDPA/DPA	84		77		40-140	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1145610-2 WG1145610-3								
n-Nitrosodi-n-propylamine	76		77		29-132	1		30
Bis(2-ethylhexyl)phthalate	89		86		40-140	3		30
Butyl benzyl phthalate	83		78		40-140	6		30
Di-n-butylphthalate	82		78		40-140	5		30
Di-n-octylphthalate	81		79		40-140	3		30
Diethyl phthalate	86		82		40-140	5		30
Dimethyl phthalate	82		78		40-140	5		30
Benzo(a)anthracene	83		80		40-140	4		30
Benzo(a)pyrene	89		87		40-140	2		30
Benzo(b)fluoranthene	88		88		40-140	0		30
Benzo(k)fluoranthene	89		84		40-140	6		30
Chrysene	88		83		40-140	6		30
Acenaphthylene	78		75		45-123	4		30
Anthracene	84		80		40-140	5		30
Benzo(ghi)perylene	103		94		40-140	9		30
Fluorene	87		82		40-140	6		30
Phenanthrene	85		79		40-140	7		30
Dibenzo(a,h)anthracene	104		96		40-140	8		30
Indeno(1,2,3-cd)pyrene	104		97		40-140	7		30
Pyrene	80		73		26-127	9		30
Biphenyl	78		74		40-140	5		30
4-Chloroaniline	78		70		40-140	11		30
2-Nitroaniline	70		70		52-143	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1145610-2 WG1145610-3								
3-Nitroaniline	75		69		25-145	8		30
4-Nitroaniline	75		73		51-143	3		30
Dibenzofuran	84		79		40-140	6		30
2-Methylnaphthalene	77		75		40-140	3		30
1,2,4,5-Tetrachlorobenzene	75		71		2-134	5		30
Acetophenone	72		73		39-129	1		30
2,4,6-Trichlorophenol	73		70		30-130	4		30
p-Chloro-m-cresol	77		74		23-97	4		30
2-Chlorophenol	71		71		27-123	0		30
2,4-Dichlorophenol	74		72		30-130	3		30
2,4-Dimethylphenol	57		48		30-130	17		30
2-Nitrophenol	70		72		30-130	3		30
4-Nitrophenol	66		62		10-80	6		30
2,4-Dinitrophenol	64		63		20-130	2		30
4,6-Dinitro-o-cresol	69		68		20-164	1		30
Pentachlorophenol	66		63		9-103	5		30
Phenol	55		58		12-110	5		30
2-Methylphenol	68		68		30-130	0		30
3-Methylphenol/4-Methylphenol	68		68		30-130	0		30
2,4,5-Trichlorophenol	79		76		30-130	4		30
Benzoic Acid	63		66		10-164	5		30
Benzyl Alcohol	64		61		26-116	5		30
Carbazole	84		77		55-144	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1145610-2 WG1145610-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		62		21-120
Phenol-d6	55		55		10-120
Nitrobenzene-d5	74		75		23-120
2-Fluorobiphenyl	78		75		15-120
2,4,6-Tribromophenol	80		72		10-120
4-Terphenyl-d14	92		85		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1145700-2 WG1145700-3								
Acenaphthene	106		105		40-140	1		40
2-Chloronaphthalene	93		92		40-140	1		40
Fluoranthene	101		102		40-140	1		40
Hexachlorobutadiene	91		87		40-140	4		40
Naphthalene	93		90		40-140	3		40
Benzo(a)anthracene	102		104		40-140	2		40
Benzo(a)pyrene	93		94		40-140	1		40
Benzo(b)fluoranthene	90		94		40-140	4		40
Benzo(k)fluoranthene	104		111		40-140	7		40
Chrysene	104		106		40-140	2		40
Acenaphthylene	107		105		40-140	2		40
Anthracene	105		105		40-140	0		40
Benzo(ghi)perylene	102		102		40-140	0		40
Fluorene	108		109		40-140	1		40
Phenanthrene	98		99		40-140	1		40
Dibenzo(a,h)anthracene	98		100		40-140	2		40
Indeno(1,2,3-cd)pyrene	95		91		40-140	4		40
Pyrene	97		100		40-140	3		40
2-Methylnaphthalene	96		94		40-140	2		40
Pentachlorophenol	100		107		40-140	7		40
Hexachlorobenzene	97		95		40-140	2		40
Hexachloroethane	92		88		40-140	4		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1145700-2 WG1145700-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		66		21-120
Phenol-d6	63		58		10-120
Nitrobenzene-d5	88		86		23-120
2-Fluorobiphenyl	89		86		15-120
2,4,6-Tribromophenol	95		97		10-120
4-Terphenyl-d14	90		90		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1145610-4 WG1145610-5 QC Sample: L1830626-03 Client ID: RMW30_080718												
1,2,4-Trichlorobenzene	ND	18.2	13	72		12	66		39-98	8		30
Bis(2-chloroethyl)ether	ND	18.2	14	77		13	72		40-140	7		30
1,2-Dichlorobenzene	ND	18.2	13	72		12	66		40-140	8		30
1,3-Dichlorobenzene	ND	18.2	13	72		11	61		40-140	17		30
1,4-Dichlorobenzene	ND	18.2	13	72		12	66		36-97	8		30
3,3'-Dichlorobenzidine	ND	18.2	ND	0	Q	ND	0	Q	40-140	NC		30
2,4-Dinitrotoluene	ND	18.2	15	83		15	83		48-143	0		30
2,6-Dinitrotoluene	ND	18.2	15	83		16	88		40-140	6		30
4-Chlorophenyl phenyl ether	ND	18.2	16	88		15	83		40-140	6		30
4-Bromophenyl phenyl ether	ND	18.2	16	88		15	83		40-140	6		30
Bis(2-chloroisopropyl)ether	ND	18.2	14	77		13	72		40-140	7		30
Bis(2-chloroethoxy)methane	ND	18.2	14	77		13	72		40-140	7		30
Hexachlorocyclopentadiene	ND	18.2	12J	66		11.J	61		40-140	9		30
Isophorone	ND	18.2	14	77		13	72		40-140	7		30
Nitrobenzene	ND	18.2	18	99		17	94		40-140	6		30
NDPA/DPA	ND	18.2	16	88		15	83		40-140	6		30
n-Nitrosodi-n-propylamine	ND	18.2	14	77		13	72		29-132	7		30
Bis(2-ethylhexyl)phthalate	ND	18.2	18	99		19	100		40-140	5		30
Butyl benzyl phthalate	ND	18.2	17	94		17	94		40-140	0		30
Di-n-butylphthalate	ND	18.2	16	88		16	88		40-140	0		30
Di-n-octylphthalate	ND	18.2	17	94		18	99		40-140	6		30
Diethyl phthalate	ND	18.2	17	94		16	88		40-140	6		30
Dimethyl phthalate	ND	18.2	16	88		15	83		40-140	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1145610-4 WG1145610-5 QC Sample: L1830626-03 Client ID: RMW30_080718												
Biphenyl	ND	18.2	15	83		15	83		40-140	0		30
4-Chloroaniline	ND	18.2	11	61		9.9	54		40-140	11		30
2-Nitroaniline	ND	18.2	8.2	45	Q	8.1	45	Q	52-143	1		30
3-Nitroaniline	ND	18.2	8.0	44		7.9	43		25-145	1		30
4-Nitroaniline	ND	18.2	3.6J	20	Q	3.7J	20	Q	51-143	3		30
Dibenzofuran	ND	18.2	16	88		15	83		40-140	6		30
1,2,4,5-Tetrachlorobenzene	ND	18.2	15	83		13	72		2-134	14		30
Acetophenone	ND	18.2	13	72		13	72		39-129	0		30
2,4,6-Trichlorophenol	ND	18.2	15	83		15	83		30-130	0		30
p-Chloro-m-cresol	ND	18.2	15	83		15	83		23-97	0		30
2-Chlorophenol	ND	18.2	13	72		13	72		27-123	0		30
2,4-Dichlorophenol	ND	18.2	14	77		14	77		30-130	0		30
2,4-Dimethylphenol	ND	18.2	9.6	53		6.5	36		30-130	39	Q	30
2-Nitrophenol	ND	18.2	14	77		14	77		30-130	0		30
4-Nitrophenol	ND	18.2	14	77		14	77		10-80	0		30
2,4-Dinitrophenol	ND	18.2	15J	83		16.J	88		20-130	6		30
4,6-Dinitro-o-cresol	ND	18.2	14	77		14	77		20-164	0		30
Phenol	ND	18.2	11	61		11	61		12-110	0		30
2-Methylphenol	ND	18.2	13	72		12	66		30-130	8		30
3-Methylphenol/4-Methylphenol	ND	18.2	13	72		12	66		30-130	8		30
2,4,5-Trichlorophenol	ND	18.2	16	88		15	83		30-130	6		30
Benzoic Acid	ND	18.2	17J	94		20.J	110		10-164	16		30
Benzyl Alcohol	ND	18.2	12	66		12	66		26-116	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1145610-4 WG1145610-5 QC Sample: L1830626-03 Client ID: RMW30_080718												
Carbazole	ND	18.2	16	88		16	88		55-144	0		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	87		84		10-120
2-Fluorobiphenyl	85		78		15-120
2-Fluorophenol	62		60		21-120
4-Terphenyl-d14	99		94		41-149
Nitrobenzene-d5	75		72		23-120
Phenol-d6	57		54		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1145700-4 WG1145700-5 QC Sample: L1830626-03 Client ID: RMW30_080718												
Acenaphthene	ND	18.2	18	99		16	88		40-140	12		40
2-Chloronaphthalene	ND	18.2	16	88		14	77		40-140	13		40
Fluoranthene	ND	18.2	18	99		16	88		40-140	12		40
Hexachlorobutadiene	ND	18.2	15	83		13	72		40-140	14		40
Naphthalene	0.09J	18.2	15	83		14	77		40-140	7		40
Benzo(a)anthracene	ND	18.2	18	99		17	94		40-140	6		40
Benzo(a)pyrene	ND	18.2	16	88		15	83		40-140	6		40
Benzo(b)fluoranthene	ND	18.2	16	88		16	88		40-140	0		40
Benzo(k)fluoranthene	ND	18.2	17	94		17	94		40-140	0		40
Chrysene	ND	18.2	18	99		16	88		40-140	12		40
Acenaphthylene	ND	18.2	17	94		16	88		40-140	6		40
Anthracene	ND	18.2	17	94		16	88		40-140	6		40
Benzo(ghi)perylene	ND	18.2	17	94		13	72		40-140	27		40
Fluorene	ND	18.2	19	100		17	94		40-140	11		40
Phenanthrene	0.04J	18.2	17	94		16	88		40-140	6		40
Dibenzo(a,h)anthracene	ND	18.2	17	94		13	72		40-140	27		40
Indeno(1,2,3-cd)pyrene	ND	18.2	16	88		13	72		40-140	21		40
Pyrene	ND	18.2	17	94		16	88		40-140	6		40
2-Methylnaphthalene	ND	18.2	16	88		15	83		40-140	6		40
Pentachlorophenol	ND	18.2	22	120		21	120		40-140	5		40
Hexachlorobenzene	ND	18.2	17	94		16	88		40-140	6		40
Hexachloroethane	ND	18.2	15	83		13	72		40-140	14		40

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatiles Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1145700-4 WG1145700-5 QC Sample: L1830626-03
Client ID: RMW30_080718

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	97		90		10-120
2-Fluorobiphenyl	88		80		15-120
2-Fluorophenol	67		60		21-120
4-Terphenyl-d14	94		87		41-149
Nitrobenzene-d5	89		78		23-120
Phenol-d6	65		57		10-120

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-02

Client ID: RMW16_080718

Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 11:35

Date Received: 08/07/18

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	4.6	J	mg/l	5.0	1.1	10	-	08/13/18 07:37	1,9060A	DW



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

SAMPLE RESULTS

Lab ID: L1830626-07

Client ID: RGWFB01_080718

Sample Location: 4650 BROADWAY , NY, NY

Date Collected: 08/07/18 15:00

Date Received: 08/07/18

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	ND		mg/l	0.50	0.11	1	-	08/13/18 07:37	1,9060A	DW



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02,07 Batch: WG1145728-1									
Total Organic Carbon	ND	mg/l	0.50	0.11	1	-	08/13/18 07:37	1,9060A	DW

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,07 Batch: WG1145728-2								
Total Organic Carbon	100		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,07 QC Batch ID: WG1145728-4 QC Sample: L1831198-01 Client ID: MS Sample												
Total Organic Carbon	29000	64000	92000	98		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1830626

Report Date: 08/15/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,07 QC Batch ID: WG1145728-3 QC Sample: L1831198-01 Client ID: DUP Sample						
Total Organic Carbon	29000	29000	mg/l	0		20

Project Name: 4650 BROADWAY**Lab Number:** L1830626**Project Number:** 170505501**Report Date:** 08/15/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1830626-01A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-01B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-01C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-01D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-01E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-02A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-02B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-02C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-02D	Vial H2SO4 preserved	A	NA		4.2	Y	Absent		TOC-9060(28)
L1830626-02E	Vial H2SO4 preserved	A	NA		4.2	Y	Absent		TOC-9060(28)
L1830626-02F	Vial H2SO4 preserved	A	NA		4.2	Y	Absent		TOC-9060(28)
L1830626-02G	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-02H	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-03A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-03A1	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-03A2	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-03A3	Vial HCl preserved	A	7	7	4.2	Y	Absent		-
L1830626-03B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-03B1	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-03B2	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-03B3	Vial HCl preserved	A	7	7	4.2	Y	Absent		-
L1830626-03C	Vial HCl preserved	A	7	7	4.2	Y	Absent		NYTCL-8260(14)
L1830626-03C1	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)

Project Name: 4650 BROADWAY

Lab Number: L1830626

Project Number: 170505501

Report Date: 08/15/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1830626-03C2	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-03D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-03D1	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-03D2	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-03D3	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		-
L1830626-03E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-03E1	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-03E2	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-04A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-04A1	Vial HCl preserved	A	7	7	4.2	Y	Absent		-
L1830626-04A2	Vial HCl preserved	A	7	7	4.2	Y	Absent		-
L1830626-04B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-04B1	Vial HCl preserved	A	7	7	4.2	Y	Absent		-
L1830626-04B2	Vial HCl preserved	A	7	7	4.2	Y	Absent		-
L1830626-04C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-04C1	Vial HCl preserved	A	7	7	4.2	Y	Absent		-
L1830626-04C2	Vial HCl preserved	A	7	7	4.2	Y	Absent		-
L1830626-04D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-04D1	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		-
L1830626-04D2	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		-
L1830626-04E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-04E1	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		-
L1830626-04E2	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		-
L1830626-05A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-05B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-05C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-05D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-05E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

Project Name: 4650 BROADWAY
Project Number: 170505501

Serial_No:08151814:58
Lab Number: L1830626
Report Date: 08/15/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1830626-06A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-06B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-07A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-07B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L1830626-07D	Vial H2SO4 preserved	A	NA		4.2	Y	Absent		TOC-9060(28)
L1830626-07E	Vial H2SO4 preserved	A	NA		4.2	Y	Absent		TOC-9060(28)
L1830626-07F	Vial H2SO4 preserved	A	NA		4.2	Y	Absent		TOC-9060(28)
L1830626-07G	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830626-07H	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1830626
Report Date: 08/15/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**
EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1834771
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	09/11/18

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), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1834771-01	RSB33_11-13	SOIL	NEW YORK, NY	09/04/18 09:00	09/04/18
L1834771-02	RSB32_11-13	SOIL	NEW YORK, NY	09/04/18 11:15	09/04/18
L1834771-03	RGWTB02_090418	WATER	NEW YORK, NY	09/04/18 00:00	09/04/18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

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.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 09/11/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-01
 Client ID: RSB33_11-13
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 09:00
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/07/18 16:47
 Analyst: PK
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.91	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.91	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.91	0.11	1
Dibromochloromethane	ND		ug/kg	0.91	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.91	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.63	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.91	0.49	1
Ethylbenzene	ND		ug/kg	0.91	0.13	1
Chloromethane	ND		ug/kg	3.6	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.91	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-01
 Client ID: RSB33_11-13
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 09:00
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.91	0.26	1
Xylenes, Total	ND		ug/kg	0.91	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.91	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.83	1
Acetone	22		ug/kg	9.1	4.4	1
Carbon disulfide	ND		ug/kg	9.1	4.1	1
2-Butanone	ND		ug/kg	9.1	2.0	1
Vinyl acetate	ND		ug/kg	9.1	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.1	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.91	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.91	0.15	1
sec-Butylbenzene	ND		ug/kg	0.91	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.91	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.91	0.10	1
Naphthalene	ND		ug/kg	3.6	0.59	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-01
Client ID: RSB33_11-13
Sample Location: NEW YORK, NY

Date Collected: 09/04/18 09:00
Date Received: 09/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.91	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	91	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	90		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-02
 Client ID: RSB32_11-13
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 11:15
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/07/18 17:12
 Analyst: PK
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.11	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	0.20	J	ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-02
 Client ID: RSB32_11-13
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 11:15
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	9.5		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.0	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-02
Client ID: RSB32_11-13
Sample Location: NEW YORK, NY

Date Collected: 09/04/18 11:15
Date Received: 09/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	92	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	90		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-03
 Client ID: RGWTB02_090418
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 00:00
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/05/18 13:53
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.73	J	ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-03
 Client ID: RGWTB02_090418
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 00:00
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-03
Client ID: RGWTB02_090418
Sample Location: NEW YORK, NY

Date Collected: 09/04/18 00:00
Date Received: 09/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/05/18 08:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1153838-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.84	J	ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/05/18 08:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1153838-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/05/18 08:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1153838-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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

Total TIC Compounds	5.61	J	ug/l
Cyclotrisiloxane, Hexamethyl-	3.06	NJ	ug/l
Unknown	2.55	J	ug/l

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/05/18 08:57
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1153838-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/07/18 08:47
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1154859-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.63	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/07/18 08:47
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1154859-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.20	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 09/07/18 08:47
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1154859-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	87		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1153838-3 WG1153838-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	99		99		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	93		93		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	91		95		63-130	4		20
1,1,2-Trichloroethane	98		99		70-130	1		20
Tetrachloroethene	93		96		70-130	3		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	82		84		62-150	2		20
1,2-Dichloroethane	97		100		70-130	3		20
1,1,1-Trichloroethane	92		98		67-130	6		20
Bromodichloromethane	96		100		67-130	4		20
trans-1,3-Dichloropropene	99		100		70-130	1		20
cis-1,3-Dichloropropene	99		100		70-130	1		20
1,1-Dichloropropene	95		96		70-130	1		20
Bromoform	81		78		54-136	4		20
1,1,2,2-Tetrachloroethane	97		98		67-130	1		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	99		100		64-130	1		20
Bromomethane	100		97		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1834771

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1153838-3 WG1153838-4								
Vinyl chloride	98		99		55-140	1		20
Chloroethane	96		98		55-138	2		20
1,1-Dichloroethene	93		94		61-145	1		20
trans-1,2-Dichloroethene	100		96		70-130	4		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	92		96		63-130	4		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	99		100		70-130	1		20
1,2,3-Trichloropropane	94		95		64-130	1		20
Acrylonitrile	89		93		70-130	4		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	86		92		36-147	7		20
Acetone	85		81		58-148	5		20
Carbon disulfide	93		96		51-130	3		20
2-Butanone	90		94		63-138	4		20
Vinyl acetate	96		98		70-130	2		20
4-Methyl-2-pentanone	87		97		59-130	11		20
2-Hexanone	86		90		57-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1834771

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1153838-3 WG1153838-4								
Bromochloromethane	99		100		70-130	1		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	94		97		70-130	3		20
1,3-Dichloropropane	97		100		70-130	3		20
1,1,1,2-Tetrachloroethane	98		100		64-130	2		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	99		100		70-130	1		20
tert-Butylbenzene	99		99		70-130	0		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	67		75		41-144	11		20
Hexachlorobutadiene	100		100		63-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	76		81		70-130	6		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	67	Q	76		70-130	13		20
1,2,4-Trichlorobenzene	98		99		70-130	1		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	36	Q	80		56-162	76	Q	20
p-Diethylbenzene	100		110		70-130	10		20

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1153838-3 WG1153838-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	97		96		59-134	1		20
trans-1,4-Dichloro-2-butene	98		100		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		98		70-130
Toluene-d8	99		101		70-130
4-Bromofluorobenzene	104		101		70-130
Dibromofluoromethane	101		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1154859-3 WG1154859-4								
Methylene chloride	101		98		70-130	3		30
1,1-Dichloroethane	110		109		70-130	1		30
Chloroform	99		96		70-130	3		30
Carbon tetrachloride	90		88		70-130	2		30
1,2-Dichloropropane	111		111		70-130	0		30
Dibromochloromethane	92		90		70-130	2		30
1,1,2-Trichloroethane	105		104		70-130	1		30
Tetrachloroethene	95		92		70-130	3		30
Chlorobenzene	98		97		70-130	1		30
Trichlorofluoromethane	86		83		70-139	4		30
1,2-Dichloroethane	95		94		70-130	1		30
1,1,1-Trichloroethane	94		93		70-130	1		30
Bromodichloromethane	92		93		70-130	1		30
trans-1,3-Dichloropropene	105		103		70-130	2		30
cis-1,3-Dichloropropene	99		98		70-130	1		30
1,1-Dichloropropene	105		102		70-130	3		30
Bromoform	92		90		70-130	2		30
1,1,2,2-Tetrachloroethane	108		108		70-130	0		30
Benzene	102		100		70-130	2		30
Toluene	105		102		70-130	3		30
Ethylbenzene	104		103		70-130	1		30
Chloromethane	114		111		52-130	3		30
Bromomethane	111		105		57-147	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1154859-3 WG1154859-4								
Vinyl chloride	99		96		67-130	3		30
Chloroethane	90		86		50-151	5		30
1,1-Dichloroethene	97		96		65-135	1		30
trans-1,2-Dichloroethene	97		96		70-130	1		30
Trichloroethene	97		94		70-130	3		30
1,2-Dichlorobenzene	98		96		70-130	2		30
1,3-Dichlorobenzene	100		99		70-130	1		30
1,4-Dichlorobenzene	99		97		70-130	2		30
Methyl tert butyl ether	93		90		66-130	3		30
p/m-Xylene	100		99		70-130	1		30
o-Xylene	99		97		70-130	2		30
cis-1,2-Dichloroethene	96		96		70-130	0		30
Dibromomethane	89		89		70-130	0		30
Styrene	100		98		70-130	2		30
Dichlorodifluoromethane	72		71		30-146	1		30
Acetone	116		97		54-140	18		30
Carbon disulfide	97		96		59-130	1		30
2-Butanone	116		108		70-130	7		30
Vinyl acetate	116		114		70-130	2		30
4-Methyl-2-pentanone	119		112		70-130	6		30
1,2,3-Trichloropropane	110		108		68-130	2		30
2-Hexanone	116		111		70-130	4		30
Bromochloromethane	89		87		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1154859-3 WG1154859-4									
2,2-Dichloropropane	101		97		70-130		4		30
1,2-Dibromoethane	95		92		70-130		3		30
1,3-Dichloropropane	107		106		69-130		1		30
1,1,1,2-Tetrachloroethane	93		92		70-130		1		30
Bromobenzene	97		98		70-130		1		30
n-Butylbenzene	114		112		70-130		2		30
sec-Butylbenzene	109		109		70-130		0		30
tert-Butylbenzene	105		104		70-130		1		30
o-Chlorotoluene	125		125		70-130		0		30
p-Chlorotoluene	110		110		70-130		0		30
1,2-Dibromo-3-chloropropane	88		83		68-130		6		30
Hexachlorobutadiene	96		94		67-130		2		30
Isopropylbenzene	111		109		70-130		2		30
p-Isopropyltoluene	105		104		70-130		1		30
Naphthalene	95		92		70-130		3		30
Acrylonitrile	119		114		70-130		4		30
n-Propylbenzene	115		114		70-130		1		30
1,2,3-Trichlorobenzene	94		92		70-130		2		30
1,2,4-Trichlorobenzene	95		93		70-130		2		30
1,3,5-Trimethylbenzene	107		107		70-130		0		30
1,2,4-Trimethylbenzene	105		104		70-130		1		30
1,4-Dioxane	91		86		65-136		6		30
p-Diethylbenzene	101		100		70-130		1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1834771

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1154859-3 WG1154859-4								
p-Ethyltoluene	104		105		70-130	1		30
1,2,4,5-Tetramethylbenzene	98		96		70-130	2		30
Ethyl ether	97		95		67-130	2		30
trans-1,4-Dichloro-2-butene	111		109		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	109		109		70-130
4-Bromofluorobenzene	109		111		70-130
Dibromofluoromethane	90		91		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-01
 Client ID: RSB33_11-13
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 09:00
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/09/18 14:25
 Analyst: JG
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 09/05/18 12:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-01
 Client ID: RSB33_11-13
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 09:00
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	37.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-01
 Client ID: RSB33_11-13
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 09:00
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	60.	1
Carbazole	ND		ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	75		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-02
 Client ID: RSB32_11-13
 Sample Location: NEW YORK, NY

Date Collected: 09/04/18 11:15
 Date Received: 09/04/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/09/18 14:51
 Analyst: JG
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 09/05/18 12:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-02
Client ID: RSB32_11-13
Sample Location: NEW YORK, NY

Date Collected: 09/04/18 11:15
Date Received: 09/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-02
Client ID: RSB32_11-13
Sample Location: NEW YORK, NY

Date Collected: 09/04/18 11:15
Date Received: 09/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	81		18-120

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/09/18 11:48
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 09/05/18 00:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1153556-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/09/18 11:48
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 09/05/18 00:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1153556-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/09/18 11:48
 Analyst: JG

Extraction Method: EPA 3546
 Extraction Date: 09/05/18 00:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1153556-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	101		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1834771

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1153556-2 WG1153556-3								
Acenaphthene	90		88		31-137	2		50
1,2,4-Trichlorobenzene	80		82		38-107	2		50
Hexachlorobenzene	95		91		40-140	4		50
Bis(2-chloroethyl)ether	80		84		40-140	5		50
2-Chloronaphthalene	88		87		40-140	1		50
1,2-Dichlorobenzene	80		83		40-140	4		50
1,3-Dichlorobenzene	79		80		40-140	1		50
1,4-Dichlorobenzene	80		80		28-104	0		50
3,3'-Dichlorobenzidine	73		70		40-140	4		50
2,4-Dinitrotoluene	96		93		40-132	3		50
2,6-Dinitrotoluene	91		90		40-140	1		50
Fluoranthene	96		93		40-140	3		50
4-Chlorophenyl phenyl ether	83		86		40-140	4		50
4-Bromophenyl phenyl ether	88		84		40-140	5		50
Bis(2-chloroisopropyl)ether	74		74		40-140	0		50
Bis(2-chloroethoxy)methane	83		83		40-117	0		50
Hexachlorobutadiene	72		74		40-140	3		50
Hexachlorocyclopentadiene	84		85		40-140	1		50
Hexachloroethane	76		77		40-140	1		50
Isophorone	82		83		40-140	1		50
Naphthalene	85		85		40-140	0		50
Nitrobenzene	80		80		40-140	0		50
NDPA/DPA	95		93		36-157	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1834771

Project Number: 170505501

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1153556-2 WG1153556-3								
n-Nitrosodi-n-propylamine	79		81		32-121	3		50
Bis(2-ethylhexyl)phthalate	99		96		40-140	3		50
Butyl benzyl phthalate	106		100		40-140	6		50
Di-n-butylphthalate	102		96		40-140	6		50
Di-n-octylphthalate	101		98		40-140	3		50
Diethyl phthalate	96		92		40-140	4		50
Dimethyl phthalate	90		87		40-140	3		50
Benzo(a)anthracene	87		83		40-140	5		50
Benzo(a)pyrene	90		93		40-140	3		50
Benzo(b)fluoranthene	98		91		40-140	7		50
Benzo(k)fluoranthene	95		95		40-140	0		50
Chrysene	90		88		40-140	2		50
Acenaphthylene	90		87		40-140	3		50
Anthracene	96		92		40-140	4		50
Benzo(ghi)perylene	106		94		40-140	12		50
Fluorene	88		92		40-140	4		50
Phenanthrene	94		92		40-140	2		50
Dibenzo(a,h)anthracene	107		96		40-140	11		50
Indeno(1,2,3-cd)pyrene	107		94		40-140	13		50
Pyrene	97		92		35-142	5		50
Biphenyl	91		91		54-104	0		50
4-Chloroaniline	48		48		40-140	0		50
2-Nitroaniline	95		90		47-134	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1834771

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1153556-2 WG1153556-3								
3-Nitroaniline	81		76		26-129	6		50
4-Nitroaniline	91		91		41-125	0		50
Dibenzofuran	91		89		40-140	2		50
2-Methylnaphthalene	86		85		40-140	1		50
1,2,4,5-Tetrachlorobenzene	78		80		40-117	3		50
Acetophenone	89		91		14-144	2		50
2,4,6-Trichlorophenol	92		88		30-130	4		50
p-Chloro-m-cresol	95		94		26-103	1		50
2-Chlorophenol	86		90		25-102	5		50
2,4-Dichlorophenol	92		92		30-130	0		50
2,4-Dimethylphenol	92		91		30-130	1		50
2-Nitrophenol	85		86		30-130	1		50
4-Nitrophenol	99		92		11-114	7		50
2,4-Dinitrophenol	32		38		4-130	17		50
4,6-Dinitro-o-cresol	71		69		10-130	3		50
Pentachlorophenol	95		94		17-109	1		50
Phenol	92	Q	92	Q	26-90	0		50
2-Methylphenol	91		92		30-130	1		50
3-Methylphenol/4-Methylphenol	91		89		30-130	2		50
2,4,5-Trichlorophenol	92		90		30-130	2		50
Benzoic Acid	14		22		10-110	44		50
Benzyl Alcohol	89		91		40-140	2		50
Carbazole	100		96		54-128	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1834771

Report Date: 09/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1153556-2 WG1153556-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		92		25-120
Phenol-d6	93		94		10-120
Nitrobenzene-d5	82		83		23-120
2-Fluorobiphenyl	84		83		30-120
2,4,6-Tribromophenol	106		101		10-136
4-Terphenyl-d14	100		93		18-120

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1834771

Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-01

Client ID: RSB33_11-13

Sample Location: NEW YORK, NY

Date Collected: 09/04/18 09:00

Date Received: 09/04/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	09/05/18 12:12	121,2540G	JK



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1834771

Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834771-02

Client ID: RSB32_11-13

Sample Location: NEW YORK, NY

Date Collected: 09/04/18 11:15

Date Received: 09/04/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	09/05/18 12:12	121,2540G	JK



Lab Duplicate Analysis
*Batch Quality Control***Project Name:** 4650 BROADWAY**Project Number:** 170505501**Lab Number:** L1834771**Report Date:** 09/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1153774-1 QC Sample: L1834812-01 Client ID: DUP Sample						
Solids, Total	87.2	86.8	%	0		20

Project Name: 4650 BROADWAY
Project Number: 170505501

Serial_No:09111811:00
Lab Number: L1834771
Report Date: 09/11/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1834771-01A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L1834771-01B	Vial water preserved	A	NA		3.5	Y	Absent	05-SEP-18 06:09	NYTCL-8260HLW(14)
L1834771-01C	Vial water preserved	A	NA		3.5	Y	Absent	05-SEP-18 06:09	NYTCL-8260HLW(14)
L1834771-01D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L1834771-01E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L1834771-02A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L1834771-02B	Vial water preserved	A	NA		3.5	Y	Absent	05-SEP-18 06:09	NYTCL-8260HLW(14)
L1834771-02C	Vial water preserved	A	NA		3.5	Y	Absent	05-SEP-18 06:09	NYTCL-8260HLW(14)
L1834771-02D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L1834771-02E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L1834771-03A	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L1834771-03B	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1834771
Report Date: 09/11/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>9/4/18</u>		ALPHA Job # <u>L1834771</u>		
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>4650 Broadway</u> Project Location: <u>New York, NY</u> Project # <u>170505501</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #
Client Information Client: <u>LANGAN Engineering</u> Address: <u>360 W 31st St</u> <u>New York, NY 10001</u> Phone: <u>2124795400</u> Fax: <u>Julia Leung</u> Email: <u>jleung@langan.com</u>		Project Manager: <u>Julia Leung</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWO Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS				Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	
Other project specific requirements/comments:				VOCs SVOCs				Total Bottles	
Please specify Metals or TAL.									
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				
		Date	Time						
<u>34771-01</u>	<u>RSB33-11-13</u>	<u>9/4/18</u>	<u>09:00</u>	<u>S</u>	<u>KR</u>	<u>X</u>	<u>X</u>		
<u>-02</u>	<u>RSB32-11-13</u>	<u>↓</u>	<u>11:15</u>	<u>↓</u>	<u>KR</u>	<u>X</u>	<u>X</u>		
<u>-03</u>	<u>R6WTB02-090418</u>	<u>↓</u>	<u>-</u>	<u>Drinking</u>	<u>KR</u>	<u>X</u>			
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <u>Temp. Vials</u> <u>A</u> Preservative <u>O</u> <u>A</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
Relinquished By: <u>[Signature]</u>		Date/Time: <u>9/4/18 14:50</u>		Received By: <u>[Signature]</u>		Date/Time: <u>9/4 1450</u>			
Relinquished By: <u>[Signature]</u>		Date/Time: <u>9/4 1610</u>		Received By: <u>[Signature]</u>		Date/Time: <u>9/4/18 1800</u>			
Relinquished By: <u>[Signature]</u>		Date/Time: <u>9/4/18 2250</u>		Received By: <u>[Signature]</u>		Date/Time: <u>9/4/18 2250</u>			



ANALYTICAL REPORT

Lab Number:	L1836205
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	09/13/18

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Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1836205-01	MW32_091218	WATER	NEW YORK, NY	09/12/18 16:30	09/12/18
L1836205-02	MW33_091218	WATER	NEW YORK, NY	09/12/18 14:30	09/12/18
L1836205-03	RGWTB03_091218	WATER	NEW YORK, NY	09/12/18 00:00	09/12/18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

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.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 09/13/18

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-01
 Client ID: MW32_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 16:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/13/18 09:49
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.40	J	ug/l	0.50	0.16	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	0.88	J	ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-01
Client ID: MW32_091218
Sample Location: NEW YORK, NY

Date Collected: 09/12/18 16:30
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-01
Client ID: MW32_091218
Sample Location: NEW YORK, NY

Date Collected: 09/12/18 16:30
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-02
 Client ID: MW33_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/13/18 10:25
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.44	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1836205

Project Number: 170505501

Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-02
 Client ID: MW33_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-02
Client ID: MW33_091218
Sample Location: NEW YORK, NY

Date Collected: 09/12/18 14:30
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1836205**Project Number:** 170505501**Report Date:** 09/13/18**SAMPLE RESULTS**

Lab ID: L1836205-03
 Client ID: RGWTB03_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 00:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/13/18 09:13
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	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
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY

Lab Number: L1836205

Project Number: 170505501

Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-03
 Client ID: RGWTB03_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 00:00
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-03
Client ID: RGWTB03_091218
Sample Location: NEW YORK, NY

Date Collected: 09/12/18 00:00
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/13/18 08:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1156522-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/13/18 08:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1156522-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/13/18 08:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1156522-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1836205

Report Date: 09/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1156522-3 WG1156522-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	99		100		63-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	110		100		70-130	10		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	80		83		54-136	4		20
1,1,2,2-Tetrachloroethane	97		100		67-130	3		20
Benzene	110		110		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	79		76		39-139	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1836205

Project Number: 170505501

Report Date: 09/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1156522-3 WG1156522-4								
Vinyl chloride	110		120		55-140	9		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	110		110		70-130	0		20
1,2,3-Trichloropropane	96		97		64-130	1		20
Acrylonitrile	110		100		70-130	10		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	100		100		58-148	0		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	110		110		63-138	0		20
Vinyl acetate	120		120		70-130	0		20
4-Methyl-2-pentanone	99		100		59-130	1		20
2-Hexanone	100		100		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1836205

Report Date: 09/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1156522-3 WG1156522-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	99		100		70-130	1		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	100		110		70-130	10		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	81		78		41-144	4		20
Hexachlorobutadiene	100		100		63-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	81		78		70-130	4		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	70		64	Q	70-130	9		20
1,2,4-Trichlorobenzene	99		100		70-130	1		20
1,3,5-Trimethylbenzene	100		110		64-130	10		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	78		100		56-162	25	Q	20
p-Diethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1836205

Report Date: 09/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1156522-3 WG1156522-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		110		70-130	10		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		105		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	103		103		70-130

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-01
 Client ID: MW32_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 16:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/13/18 16:00
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/13/18 06:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-01
Client ID: MW32_091218
Sample Location: NEW YORK, NY

Date Collected: 09/12/18 16:30
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	84		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-01
 Client ID: MW32_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 16:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/13/18 16:12
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 09/13/18 06:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.09	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.11		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.06	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.07	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Chrysene	0.06	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.05	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01	1
Pyrene	0.09	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-01
 Client ID: MW32_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 16:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	76		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-02
 Client ID: MW33_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/13/18 16:26
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/13/18 06:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-02
Client ID: MW33_091218
Sample Location: NEW YORK, NY

Date Collected: 09/12/18 14:30
Date Received: 09/12/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	7.4	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	85		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-02
 Client ID: MW33_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/13/18 16:38
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 09/13/18 06:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

SAMPLE RESULTS

Lab ID: L1836205-02
 Client ID: MW33_091218
 Sample Location: NEW YORK, NY

Date Collected: 09/12/18 14:30
 Date Received: 09/12/18
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	81		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/13/18 14:43
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 09/13/18 06:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1156372-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/13/18 14:43
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 09/13/18 06:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1156372-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 09/13/18 14:43
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 09/13/18 06:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1156372-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	75		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/13/18 14:53
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/13/18 06:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG1156373-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/13/18 14:53
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/13/18 06:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG1156373-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	75		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1836205

Report Date: 09/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1156372-2 WG1156372-3								
Acenaphthene	66		82		37-111	22		30
1,2,4-Trichlorobenzene	60		76		39-98	24		30
Hexachlorobenzene	67		82		40-140	20		30
Bis(2-chloroethyl)ether	62		79		40-140	24		30
2-Chloronaphthalene	61		80		40-140	27		30
1,2-Dichlorobenzene	58		75		40-140	26		30
1,3-Dichlorobenzene	60		76		40-140	24		30
1,4-Dichlorobenzene	60		75		36-97	22		30
3,3'-Dichlorobenzidine	63		81		40-140	25		30
2,4-Dinitrotoluene	72		89		48-143	21		30
2,6-Dinitrotoluene	69		86		40-140	22		30
Fluoranthene	74		89		40-140	18		30
4-Chlorophenyl phenyl ether	68		84		40-140	21		30
4-Bromophenyl phenyl ether	67		84		40-140	23		30
Bis(2-chloroisopropyl)ether	64		80		40-140	22		30
Bis(2-chloroethoxy)methane	65		80		40-140	21		30
Hexachlorobutadiene	57		73		40-140	25		30
Hexachlorocyclopentadiene	56		71		40-140	24		30
Hexachloroethane	61		72		40-140	17		30
Isophorone	65		83		40-140	24		30
Naphthalene	60		77		40-140	25		30
Nitrobenzene	61		80		40-140	27		30
NDPA/DPA	68		87		40-140	25		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1836205

Report Date: 09/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1156372-2 WG1156372-3								
n-Nitrosodi-n-propylamine	67		86		29-132	25		30
Bis(2-ethylhexyl)phthalate	76		91		40-140	18		30
Butyl benzyl phthalate	69		84		40-140	20		30
Di-n-butylphthalate	70		84		40-140	18		30
Di-n-octylphthalate	76		88		40-140	15		30
Diethyl phthalate	75		87		40-140	15		30
Dimethyl phthalate	70		85		40-140	19		30
Benzo(a)anthracene	74		91		40-140	21		30
Benzo(a)pyrene	77		96		40-140	22		30
Benzo(b)fluoranthene	83		99		40-140	18		30
Benzo(k)fluoranthene	75		90		40-140	18		30
Chrysene	73		88		40-140	19		30
Acenaphthylene	64		82		45-123	25		30
Anthracene	69		89		40-140	25		30
Benzo(ghi)perylene	76		92		40-140	19		30
Fluorene	69		84		40-140	20		30
Phenanthrene	69		87		40-140	23		30
Dibenzo(a,h)anthracene	77		94		40-140	20		30
Indeno(1,2,3-cd)pyrene	74		92		40-140	22		30
Pyrene	69		87		26-127	23		30
Biphenyl	63		80		40-140	24		30
4-Chloroaniline	55		68		40-140	21		30
2-Nitroaniline	65		81		52-143	22		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1836205

Project Number: 170505501

Report Date: 09/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1156372-2 WG1156372-3								
3-Nitroaniline	70		86		25-145	21		30
4-Nitroaniline	71		84		51-143	17		30
Dibenzofuran	65		82		40-140	23		30
2-Methylnaphthalene	61		80		40-140	27		30
1,2,4,5-Tetrachlorobenzene	60		76		2-134	24		30
Acetophenone	63		80		39-129	29		30
2,4,6-Trichlorophenol	67		87		30-130	26		30
p-Chloro-m-cresol	72		92		23-97	24		30
2-Chlorophenol	65		80		27-123	21		30
2,4-Dichlorophenol	68		87		30-130	25		30
2,4-Dimethylphenol	67		85		30-130	24		30
2-Nitrophenol	65		87		30-130	29		30
4-Nitrophenol	73		75		10-80	3		30
2,4-Dinitrophenol	76		79		20-130	4		30
4,6-Dinitro-o-cresol	67		79		20-164	16		30
Pentachlorophenol	70		81		9-103	15		30
Phenol	49		61		12-110	22		30
2-Methylphenol	62		80		30-130	25		30
3-Methylphenol/4-Methylphenol	67		85		30-130	24		30
2,4,5-Trichlorophenol	72		86		30-130	18		30
Benzoic Acid	62		54		10-164	14		30
Benzyl Alcohol	65		77		26-116	17		30
Carbazole	75		92		55-144	20		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1836205

Report Date: 09/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1156372-2 WG1156372-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		69		21-120
Phenol-d6	48		60		10-120
Nitrobenzene-d5	65		81		23-120
2-Fluorobiphenyl	61		79		15-120
2,4,6-Tribromophenol	73		88		10-120
4-Terphenyl-d14	70		83		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1836205

Report Date: 09/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG1156373-2 WG1156373-3								
Acenaphthene	87		86		40-140	1		40
2-Chloronaphthalene	75		75		40-140	0		40
Fluoranthene	88		86		40-140	2		40
Hexachlorobutadiene	68		67		40-140	1		40
Naphthalene	74		73		40-140	1		40
Benzo(a)anthracene	90		86		40-140	5		40
Benzo(a)pyrene	87		79		40-140	10		40
Benzo(b)fluoranthene	97		89		40-140	9		40
Benzo(k)fluoranthene	92		87		40-140	6		40
Chrysene	92		87		40-140	6		40
Acenaphthylene	83		84		40-140	1		40
Anthracene	89		83		40-140	7		40
Benzo(ghi)perylene	82		77		40-140	6		40
Fluorene	90		89		40-140	1		40
Phenanthrene	85		82		40-140	4		40
Dibenzo(a,h)anthracene	85		80		40-140	6		40
Indeno(1,2,3-cd)pyrene	80		71		40-140	12		40
Pyrene	87		84		40-140	4		40
2-Methylnaphthalene	99		98		40-140	1		40
Pentachlorophenol	90		96		40-140	6		40
Hexachlorobenzene	78		76		40-140	3		40
Hexachloroethane	81		80		40-140	1		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG1156373-2 WG1156373-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	56		56		21-120
Phenol-d6	54		54		10-120
Nitrobenzene-d5	76		76		23-120
2-Fluorobiphenyl	76		75		15-120
2,4,6-Tribromophenol	85		83		10-120
4-Terphenyl-d14	77		74		41-149

Project Name: 4650 BROADWAY
Project Number: 170505501

Serial_No:09131817:50
Lab Number: L1836205
Report Date: 09/13/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1836205-01A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1836205-01B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1836205-01C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1836205-01D	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1836205-01E	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1836205-02A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1836205-02B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1836205-02C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1836205-02D	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1836205-02E	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1836205-03A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1836205-03B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1836205
Report Date: 09/13/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1934791
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	08/12/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com





ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Alpha Analytical, Inc.
145 Flanders Road
Westborough MA 01581

Report Date: October 25, 2019 13:50

Project: L1943837

Account #: 09847
Group Number: 2061192
SDG: AAL06
PO Number: L1943837
State of Sample Origin: MA

Electronic Copy To Alpha Analytical, Inc.

Attn: Ben Rao

Respectfully Submitted,



Marrissa Williams
Project Manager

(717) 556-7246

To view our laboratory's current scopes of accreditation please go to <https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/>. Historical copies may be requested through your project manager.



SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
RSB09A_6-7 Soil	08/26/2019 08:50	1137779

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: RSB09A_6-7 Soil
RSB09A_6-7

Alpha Analytical, Inc.
ELLE Sample #: SW 1137779
ELLE Group #: 2061192
Matrix: Soil

Project Name: L1943837

Submittal Date/Time: 08/28/2019 08:05
Collection Date/Time: 08/26/2019 08:50
SDG#: AAL06-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
LC/MS/MS Miscellaneous Pre-Oxidation		EPA 537 Version 1.1 Modified	ng/g	ng/g	ng/g	ng/g	
15064	9CI-PF3ONS ¹ 9CI-PF3ONS is the acronym for Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	756426-58-1	N.D.	0.23	2.3		1
15064	11CI-PF3OUdS ¹ 11CI-PF3OUdS is the acronym for 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9	N.D.	0.23	0.68		1
15064	DONA ¹ DONA is the acronym for 4,8-dioxa-3H-perfluorononanoic acid, the free acid form of ADONA.	919005-14-4	N.D.	0.23	0.68		1
15064	10:2Fluorotelomersulfonic acid ¹	120226-60-0	N.D.	0.68	2.3	10	1
15064	4:2-Fluorotelomersulfonic acid ¹	757124-72-4	N.D.	0.68	2.3		1
15064	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	0.68	2.3		1
15064	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.68	3.4		1
15064	HFPODA ¹ HFPODA is the acronym for 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid	13252-13-6	N.D.	0.45	3.4		1
15064	NEtFOSAA ¹ NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	N.D.	0.23	2.3		1
15064	NEtPFOSA ¹ NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide	4151-50-2	N.D.	0.57	2.3		1
15064	NEtPFOSAE ¹ NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	N.D.	0.57	2.3		1
15064	NMeFOSAA ¹ NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	N.D.	0.23	2.3		1
15064	NMePFOSA ¹ NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide	31506-32-8	N.D.	0.57	2.3		1
15064	NMePFOSAE ¹ NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	N.D.	0.57	2.3		1
15064	Perfluorobutanesulfonic acid ¹	375-73-5	N.D.	0.45	2.3		1
15064	Perfluorobutanoic acid ¹	375-22-4	N.D.	0.90	2.3		1
15064	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.23	0.68		1
15064	Perfluorodecanoic acid ¹	335-76-2	N.D.	0.23	0.68		1
15064	Perfluorododecanesulfonic acid ¹	79780-39-5	N.D.	0.23	2.3		1
15064	Perfluorododecanoic acid ¹	307-55-1	N.D.	0.23	0.68		1
15064	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.23	0.68		1
15064	Perfluoroheptanoic acid ¹	375-85-9	N.D.	0.23	0.68		1
15064	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.23	0.68		1
15064	Perfluorohexanesulfonic acid ¹	355-46-4	N.D.	0.23	0.68		1
15064	Perfluorohexanoic acid ¹	307-24-4	N.D.	0.23	0.68		1
15064	Perfluorononanesulfonic acid ¹	68259-12-1	N.D.	0.23	0.68		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided Action Limit.

Sample Description: RSB09A_6-7 Soil
RSB09A_6-7

Alpha Analytical, Inc.
ELLE Sample #: SW 1137779
ELLE Group #: 2061192
Matrix: Soil

Project Name: L1943837

Submittal Date/Time: 08/28/2019 08:05
Collection Date/Time: 08/26/2019 08:50
SDG#: AAL06-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
LC/MS/MS Miscellaneous Pre-Oxidation		EPA 537 Version 1.1 Modified	ng/g	ng/g	ng/g	ng/g	
15064	Perfluorononanoic acid ¹	375-95-1	N.D.	0.23	0.68		1
15064	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	0.23	0.68		1
15064	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.23	0.68		1
15064	Perfluorooctanesulfonic acid ¹	1763-23-1	N.D.	0.23	0.68		1
15064	Perfluorooctanoic acid ¹	335-67-1	N.D.	0.23	0.68		1
15064	Perfluoropentanesulfonic acid ¹	2706-91-4	N.D.	0.23	0.68		1
15064	Perfluoropentanoic acid ¹	2706-90-3	N.D.	0.23	0.68		1
15064	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.23	0.68		1
15064	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.23	0.68		1
15064	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.23	0.68		1
The LCS/LCSD extraction standard(s) recovery is outside the QC acceptance limits as noted on the QC Summary. Since the recovery for the target analytes is compliant, the data is reported.							
LC/MS/MS Miscellaneous Post-Oxidation		EPA 537 Version 1.1 Modified	ng/g	ng/g	ng/g	ng/g	
15065	10:2Fluorotelomersulfonic acid ¹	120226-60-0	N.D.	0.66	2.2	5	1
15065	4:2-Fluorotelomersulfonic acid ¹	757124-72-4	N.D.	0.66	2.2		1
15065	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	0.66	2.2		1
15065	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.66	3.3		1
15065	NEtFOSAA ¹	2991-50-6	N.D.	0.22	2.2		1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.							
15065	NEtPFOSA ¹	4151-50-2	N.D.	0.55	2.2		1
NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide							
15065	NEtPFOSAE ¹	1691-99-2	N.D.	0.55	2.2		1
NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol							
15065	NMeFOSAA ¹	2355-31-9	N.D.	0.22	2.2		1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.							
15065	NMePFOSA ¹	31506-32-8	N.D.	0.55	2.2		1
NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide							
15065	NMePFOSAE ¹	24448-09-7	N.D.	0.55	2.2		1
NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol							
15065	Perfluorobutanesulfonic acid ¹	375-73-5	N.D.	0.44	2.2		1
15065	Perfluorobutanoic acid ¹	375-22-4	N.D.	0.88	2.2		1
15065	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.22	0.66		1
15065	Perfluorodecanoic acid ¹	335-76-2	N.D.	0.22	0.66		1
15065	Perfluorododecanesulfonic acid ¹	79780-39-5	N.D.	0.22	2.2		1
15065	Perfluorododecanoic acid ¹	307-55-1	N.D.	0.22	0.66		1
15065	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.22	0.66		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided Action Limit.

Sample Description: RSB09A_6-7 Soil
RSB09A_6-7

Alpha Analytical, Inc.
ELLE Sample #: SW 1137779
ELLE Group #: 2061192
Matrix: Soil

Project Name: L1943837

Submittal Date/Time: 08/28/2019 08:05
Collection Date/Time: 08/26/2019 08:50
SDG#: AAL06-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
LC/MS/MS Miscellaneous Post-Oxidation		EPA 537 Version 1.1 Modified	ng/g	ng/g	ng/g	ng/g	
15065	Perfluoroheptanoic acid ¹	375-85-9	N.D.	0.22	0.66		1
15065	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.22	0.66		1
15065	Perfluorohexanesulfonic acid ¹	355-46-4	N.D.	0.22	0.66		1
15065	Perfluorohexanoic acid ¹	307-24-4	N.D.	0.22	0.66		1
15065	Perfluorononanesulfonic acid ¹	68259-12-1	N.D.	0.22	0.66		1
15065	Perfluorononanoic acid ¹	375-95-1	N.D.	0.22	0.66		1
15065	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	0.22	0.66		1
15065	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.22	0.66		1
15065	Perfluorooctanesulfonic acid ¹	1763-23-1	N.D.	0.22	0.66		1
15065	Perfluorooctanoic acid ¹	335-67-1	N.D.	0.22	0.66		1
15065	Perfluoropentanesulfonic acid ¹	2706-91-4	N.D.	0.22	0.66		1
15065	Perfluoropentanoic acid ¹	2706-90-3	N.D.	0.22	0.66		1
15065	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.22	0.66		1
15065	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.22	0.66		1
15065	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.22	0.66		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Wet Chemistry		SM 2540 G-2011 %Moisture Calc	%	%	%	%
00111	Moisture ¹	n.a.	18.9	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

Sample Comments

State of Texas Lab Certification No. T104704194-17-23
State of Massachusetts Laboratory Non-Potable Water Certification M-PA009

¹ = This analyte was not on the laboratory's MA DEP Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
15064	TOP in Soil Pre-oxidation	EPA 537 Version 1.1 Modified	1	19253013	09/20/2019 15:25	Jason W Knight	1
15065	TOP in Soil Post-oxidation	EPA 537 Version 1.1 Modified	1	19253015	10/08/2019 12:16	Jason W Knight	1
14090	PFAS Solid Prep	EPA 537 Version 1.1 Modified	1	19253013	09/19/2019 11:30	Robert Brown	1
15102	TOP in Soil Post-Oxid Prep	EPA 537 Version 1.1 Modified	1	19253015	09/19/2019 11:30	Robert Brown	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided Action Limit.

Sample Description: RSB09A_6-7 Soil
RSB09A_6-7

Alpha Analytical, Inc.
ELLE Sample #: SW 1137779
ELLE Group #: 2061192
Matrix: Soil

Project Name: L1943837

Submittal Date/Time: 08/28/2019 08:05
Collection Date/Time: 08/26/2019 08:50
SDG#: AAL06-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	19254820001A	09/12/2019 12:30	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided Action Limit.

Quality Control Summary

Client Name: Alpha Analytical, Inc.
Reported: 10/25/2019 13:50

Group Number: 2061192

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ng/g	ng/g	ng/g
Batch number: 19253013	Sample number(s): 1137779		
9CI-PF3ONS	N.D.	0.20	2.0
11CI-PF3OUdS	N.D.	0.20	0.60
DONA	N.D.	0.20	0.60
10:2Fluorotelomersulfonic acid	N.D.	0.60	2.0
4:2-Fluorotelomersulfonic acid	N.D.	0.60	2.0
6:2-Fluorotelomersulfonic acid	N.D.	0.60	2.0
8:2-Fluorotelomersulfonic acid	N.D.	0.60	3.0
HFPODA	N.D.	0.40	3.0
NEtFOSAA	N.D.	0.20	2.0
NEtPFOSA	N.D.	0.50	2.0
NEtPFOSAE	N.D.	0.50	2.0
NMeFOSAA	N.D.	0.20	2.0
NMePFOSA	N.D.	0.50	2.0
NMePFOSAE	N.D.	0.50	2.0
Perfluorobutanesulfonic acid	N.D.	0.40	2.0
Perfluorobutanoic acid	N.D.	0.80	2.0
Perfluorodecanesulfonic acid	N.D.	0.20	0.60
Perfluorodecanoic acid	N.D.	0.20	0.60
Perfluorododecanesulfonic acid	N.D.	0.20	2.0
Perfluorododecanoic acid	N.D.	0.20	0.60
Perfluoroheptanesulfonic acid	N.D.	0.20	0.60
Perfluoroheptanoic acid	N.D.	0.20	0.60
Perfluorohexadecanoic acid	N.D.	0.20	0.60
Perfluorohexanesulfonic acid	N.D.	0.20	0.60
Perfluorohexanoic acid	N.D.	0.20	0.60
Perfluorononanesulfonic acid	N.D.	0.20	0.60
Perfluorononanoic acid	N.D.	0.20	0.60
Perfluorooctadecanoic acid	N.D.	0.20	0.60
Perfluorooctanesulfonamide	N.D.	0.20	0.60
Perfluorooctanesulfonic acid	N.D.	0.20	0.60
Perfluorooctanoic acid	N.D.	0.20	0.60
Perfluoropentanesulfonic acid	N.D.	0.20	0.60
Perfluoropentanoic acid	N.D.	0.20	0.60
Perfluorotetradecanoic acid	N.D.	0.20	0.60
Perfluorotridecanoic acid	N.D.	0.20	0.60
Perfluoroundecanoic acid	N.D.	0.20	0.60
Batch number: 19253015	Sample number(s): 1137779		
10:2Fluorotelomersulfonic acid	N.D.	0.60	2.0

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Alpha Analytical, Inc.
Reported: 10/25/2019 13:50

Group Number: 2061192

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ng/g	ng/g	ng/g
4:2-Fluorotelomersulfonic acid	N.D.	0.60	2.0
6:2-Fluorotelomersulfonic acid	N.D.	0.60	2.0
8:2-Fluorotelomersulfonic acid	N.D.	0.60	3.0
NEtFOSAA	N.D.	0.20	2.0
NEtPFOSA	N.D.	0.50	2.0
NEtPFOSAE	N.D.	0.50	2.0
NMeFOSAA	N.D.	0.20	2.0
NMePFOSA	N.D.	0.50	2.0
NMePFOSAE	N.D.	0.50	2.0
Perfluorobutanesulfonic acid	N.D.	0.40	2.0
Perfluorobutanoic acid	N.D.	0.80	2.0
Perfluorodecanesulfonic acid	N.D.	0.20	0.60
Perfluorodecanoic acid	N.D.	0.20	0.60
Perfluorododecanesulfonic acid	N.D.	0.20	2.0
Perfluorododecanoic acid	N.D.	0.20	0.60
Perfluoroheptanesulfonic acid	N.D.	0.20	0.60
Perfluoroheptanoic acid	N.D.	0.20	0.60
Perfluorohexadecanoic acid	N.D.	0.20	0.60
Perfluorohexanesulfonic acid	N.D.	0.20	0.60
Perfluorohexanoic acid	N.D.	0.20	0.60
Perfluorononanesulfonic acid	N.D.	0.20	0.60
Perfluorononanoic acid	N.D.	0.20	0.60
Perfluorooctadecanoic acid	N.D.	0.20	0.60
Perfluorooctanesulfonamide	N.D.	0.20	0.60
Perfluorooctanesulfonic acid	N.D.	0.20	0.60
Perfluorooctanoic acid	N.D.	0.20	0.60
Perfluoropentanesulfonic acid	N.D.	0.20	0.60
Perfluoropentanoic acid	N.D.	0.20	0.60
Perfluorotetradecanoic acid	N.D.	0.20	0.60
Perfluorotridecanoic acid	N.D.	0.20	0.60
Perfluoroundecanoic acid	N.D.	0.20	0.60

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 19253013	Sample number(s): 1137779								
9Cl-PF3ONS	1.27	1.25	1.27	1.29	99	102	48-156	3	30
11Cl-PF3OUdS	1.28	1.25	1.28	1.40	98	109	49-152	11	30
DONA	1.28	1.47	1.28	1.52	114	119	60-142	4	30
10:2Fluorotelomersulfonic acid	3.86	4.09	3.86	3.71	106	96	45-147	10	30

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Alpha Analytical, Inc.
Reported: 10/25/2019 13:50

Group Number: 2061192

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4:2-Fluorotelomersulfonic acid	3.74	3.78	3.74	3.97	101	106	58-134	5	30
6:2-Fluorotelomersulfonic acid	3.79	4.49	3.79	4.39	118	116	51-144	2	30
8:2-Fluorotelomersulfonic acid	3.83	4.47	3.83	4.07	117	106	54-152	9	30
HFPDA	1.36	1.26	1.36	1.37	93	101	36-163	8	30
NEtFOSAA	1.36	1.25	1.36	1.36	92	100	51-145	8	30
NEtPFOSA	1.36	1.18	1.36	1.43	87	105	52-134	20	30
NEtPFOSAE	1.36	1.38	1.36	1.37	102	101	52-141	1	30
NMeFOSAA	1.36	1.30	1.36	1.55	96	114	55-152	17	30
NMePFOSA	1.36	1.48	1.36	1.27	109	93	40-132	15	30
NMePFOSAE	1.36	1.35	1.36	1.33	99	98	56-144	2	30
Perfluorobutanesulfonic acid	1.20	1.29	1.20	1.44	107	119	63-139	11	30
Perfluorobutanoic acid	1.36	1.55	1.36	1.63	114	120	56-188	5	30
Perfluorodecanesulfonic acid	1.31	1.49	1.31	1.63	114	124	60-142	9	30
Perfluorodecanoic acid	1.36	1.63	1.36	1.70	120	125	65-144	4	30
Perfluorododecanesulfonic acid	1.32	1.59	1.32	1.63	121	124	50-146	2	30
Perfluorododecanoic acid	1.36	1.86	1.36	1.72	136	126	62-150	8	30
Perfluoroheptanesulfonic acid	1.29	1.55	1.29	1.69	120	130	67-139	8	30
Perfluoroheptanoic acid	1.36	1.68	1.36	1.75	124	129	65-153	4	30
Perfluorohexadecanoic acid	1.36	1.28	1.36	1.36	94	100	46-164	6	30
Perfluorohexanesulfonic acid	1.29	1.33	1.29	1.43	103	111	59-139	8	30
Perfluorohexanoic acid	1.36	1.53	1.36	1.63	113	120	64-149	6	30
Perfluorononanesulfonic acid	1.31	1.48	1.31	1.57	114	120	62-145	6	30
Perfluorononanoic acid	1.36	1.75	1.36	1.56	129	115	64-151	12	30
Perfluorooctadecanoic acid	1.36	1.41	1.36	1.51	104	111	27-171	7	30
Perfluorooctanesulfonamide	1.36	1.47	1.36	1.50	108	110	61-133	2	30
Perfluorooctanesulfonic acid	1.30	1.25	1.30	1.43	96	110	54-132	13	30
Perfluorooctanoic acid	1.36	1.59	1.36	1.59	117	117	65-147	0	30
Perfluoropentanesulfonic acid	1.28	1.55	1.28	1.67	121	131	64-144	7	30
Perfluoropentanoic acid	1.36	1.86	1.36	1.76	137	130	71-139	5	30
Perfluorotetradecanoic acid	1.36	1.63	1.36	1.73	120	128	66-147	6	30
Perfluorotridecanoic acid	1.36	1.96	1.36	1.87	144	137	63-152	5	30
Perfluoroundecanoic acid	1.36	1.71	1.36	1.66	126	122	65-146	3	30
Batch number: 19253015	Sample number(s): 1137779								
10:2Fluorotelomersulfonic acid	7.71	5.74	7.71	5.84	74	76	70-130	2	30
4:2-Fluorotelomersulfonic acid	7.47	5.72	7.47	5.70	77	76	70-130	0	30
6:2-Fluorotelomersulfonic acid	7.58	6.69	7.58	7.10	88	94	70-130	6	30
8:2-Fluorotelomersulfonic acid	7.66	6.34	7.66	6.21	83	81	70-130	2	30
NEtFOSAA	2.72	2.00	2.72	2.17	74	80	70-130	8	30
NEtPFOSA	2.72	1.78	2.72	1.84	65*	68*	70-130	3	30
NEtPFOSAE	2.72	1.93	2.72	2.02	71	74	70-130	4	30
NMeFOSAA	2.72	2.25	2.72	1.90	83	70	70-130	17	30
NMePFOSA	2.72	2.55	2.72	2.11	94	78	70-130	19	30
NMePFOSAE	2.72	2.33	2.72	2.22	86	82	70-130	5	30

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Alpha Analytical, Inc.
Reported: 10/25/2019 13:50

Group Number: 2061192

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluorobutanesulfonic acid	2.41	2.17	2.41	2.20	90	91	70-130	1	30
Perfluorobutanoic acid	2.72	3.13	2.72	3.14	115	115	70-130	0	30
Perfluorodecanesulfonic acid	2.62	2.76	2.62	2.46	105	94	70-130	11	30
Perfluorodecanoic acid	2.72	2.42	2.72	2.71	89	100	70-130	11	30
Perfluorododecanesulfonic acid	2.63	2.43	2.63	2.52	92	96	70-130	3	30
Perfluorododecanoic acid	2.72	2.63	2.72	2.79	97	103	70-130	6	30
Perfluoroheptanesulfonic acid	2.59	2.23	2.59	2.37	86	92	70-130	6	30
Perfluoroheptanoic acid	2.72	2.38	2.72	2.47	87	91	70-130	4	30
Perfluorohexadecanoic acid	2.72	2.35	2.72	2.17	87	80	70-130	8	30
Perfluorohexanesulfonic acid	2.57	2.27	2.57	2.25	88	88	70-130	1	30
Perfluorohexanoic acid	2.72	2.55	2.72	2.64	94	97	70-130	4	30
Perfluorononanesulfonic acid	2.61	2.67	2.61	2.52	102	96	70-130	6	30
Perfluorononanoic acid	2.72	2.55	2.72	2.62	94	96	70-130	3	30
Perfluorooctadecanoic acid	2.72	2.41	2.72	2.33	89	86	70-130	4	30
Perfluorooctanesulfonamide	2.72	2.10	2.72	2.27	77	83	70-130	7	30
Perfluorooctanesulfonic acid	2.60	2.36	2.60	2.47	91	95	70-130	4	30
Perfluorooctanoic acid	2.72	2.49	2.72	2.62	92	97	70-130	5	30
Perfluoropentanesulfonic acid	2.56	2.20	2.56	2.52	86	99	70-130	14	30
Perfluoropentanoic acid	2.72	2.50	2.72	2.53	92	93	70-130	1	30
Perfluorotetradecanoic acid	2.72	2.53	2.72	2.67	93	98	70-130	6	30
Perfluorotridecanoic acid	2.72	2.46	2.72	2.78	90	102	70-130	12	30
Perfluoroundecanoic acid	2.72	2.73	2.72	2.84	100	104	70-130	4	30
	%	%	%	%					

Batch number: 19254820001A
Moisture

Sample number(s): 1137779
89.5 89.45

100 99-101

Labeled Isotope Quality Control

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: TOP in Soil Pre-oxidation
Batch number: 19253013

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C2-4:2-FTS	13C5-PFHxA	13C3-PFHxS
1137779	89	82	79	102	90	91
Blank	88	78	79	94	93	96
LCS	100	87	88	111	106	104
LCSD	93	85	82	101	91	90
Limits:	40-117	38-118	38-120	28-137	36-120	38-124

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Alpha Analytical, Inc.
Reported: 10/25/2019 13:50

Group Number: 2061192

Labeled Isotope Quality Control (continued)

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: TOP in Soil Pre-oxidation
Batch number: 19253013

	13C4-PFHpA	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA
1137779	88	99	89	94	96	89
Blank	98	98	92	91	87	91
LCS	104	108	102	108	102	108
LCSD	90	100	93	95	98	91

Limits: 39-120 25-154 44-115 45-118 39-123 43-118

	13C2-8:2-FTS	d3-NMeFOSAA	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA
1137779	107	88	97	126	92	108
Blank	105	112	96	121	94	110
LCS	119	129	108	138	102	133*
LCSD	106	105	100	119	92	112

Limits: 26-155 10-152 34-124 10-156 28-126 26-125

	13C8-PFOSA	d7-NMePFOSAE	d9-NEIPFOSAE	d5-NEIPFOSA	d3-NMePFOSA	13C3-HFPODA
1137779	97	99	101	83	82	99
Blank	80	82	86	60	58	113
LCS	117	126	126	118	110	111
LCSD	101	108	110	102	98	96

Limits: 31-127 10-142 10-150 10-145 10-141 33-139

Analysis Name: TOP in Soil Post-oxidation
Batch number: 19253015

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C5-PFHxA	13C3-PFHxS	13C4-PFHpA
1137779	97	97	108	94	89	94
Blank	93	96	104	87	86	89
LCS	89	91	99	82	85	87
LCSD	87	90	95	79	81	84

Limits: 70-130 70-130 70-130 70-130 70-130 70-130

	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA	13C2-8:2-FTS
1137779	227*	94	95	108	104	150*
Blank	229*	94	95	103	91	135*
LCS	199*	90	91	104	99	141*
LCSD	177*	85	88	98	89	127

Limits: 70-130 70-130 70-130 70-130 70-130 70-130

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Alpha Analytical, Inc.
Reported: 10/25/2019 13:50

Group Number: 2061192

Labeled Isotope Quality Control (continued)

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: TOP in Soil Post-oxidation
Batch number: 19253015

	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA	13C8-PFOA	d7-NMePFOSAE
1137779	102	122	92	92	104	95
Blank	87	101	89	90	89	77
LCS	93	110	94	90	98	83
LCSD	84	109	81	88	95	84
Limits:	70-130	70-130	70-130	70-130	70-130	70-130
	d9-NEIPFOSAE	d5-NEIPFOA	d3-NMePFOSA	PRS-13C2-PFHxA	PRS-13C4-PFOA	PRS-13C2-PFUnDA
1137779	103	53*	48*	40*	42*	59*
Blank	85	35*	29*	38*	40*	55*
LCS	90	43*	37*	73	76	117
LCSD	90	47*	41*	73	77	113
Limits:	70-130	70-130	70-130	70-130	70-130	70-130

*- Outside of specification


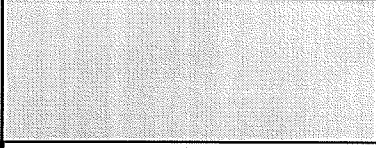
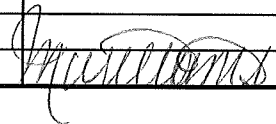
** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

9847 / 2061192 / 1137779

REVISED
MCWAS458 9-23-19

		Subcontract Chain of Custody Eurofins US 2425 New Holland Pike Lancaster, PA 17601			Alpha Job Number L1943837	
Client Information		Project Information			Regulatory Requirements/Report Limits	
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 201.812.2633 Email: brao@alphalab.com		Project Location: NY Project Manager: Ben Rao Turnaround & Deliverables Information Due Date: 09/24/19 Deliverables:			State/Federal Program: NYDEC Regulatory Criteria: NY-UNRES	
Project Specific Requirements and/or Report Requirements						
Reference following Alpha Job Number on final report/deliverables: L1943837				Report to include Method Blank, LCS/LCSD:		
Additional Comments: Send all results/reports to subreports@alphalab.com and brao@alphalab.com. Quote 221848A = 36 PFAs Pre-oxidation, TOP Soil Oxidation Prep, 36 PFAs Post-oxidation. ASP-B deliverable package.						
Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC	
	RSB09A_6-7	08-26-19 08:50	SOIL	Total Oxidizable Precursor		
		Relinquished By:	Date/Time:	Received By:	Date/Time:	
Form No: AL_subcoc					9/23/19 17:08	



Group Number(s):

2041192

Client: ALPHA

Delivery and Receipt Information

Delivery Method: UPS Arrival Timestamp: 08/28/2019 8:05
 Number of Packages: 1 Number of Projects: 1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jessenia Colon Martinez (30 856) at 10:26 on 08/28/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	192099059	1.0	IR	Wet	Y	Loose/Bag	N

Sample Description: RSB09A_6-7 Soil

RSB09A_6-7

Project Name: L1943837

ELLE Sample # 1137779

Compound	CAS Number	Pre-Oxidation	Post-Oxidation	Net Difference	Units
		Analysis Result	Analysis Result		
10:2Fluorotelomersulfonic acid	120226-60-0	ND	ND		ng/g
4:2-Fluorotelomersulfonic acid	757124-72-4	ND	ND		ng/g
6:2-Fluorotelomersulfonic acid	27619-97-2	ND	ND		ng/g
8:2-Fluorotelomersulfonic acid	39108-34-4	ND	ND		ng/g
NEtFOSAA	2991-50-6	ND	ND		ng/g
NEtPFOSA	4151-50-2	ND	ND		ng/g
NEtPFOSAE	1691-99-2	ND	ND		ng/g
NMeFOSAA	2355-31-9	ND	ND		ng/g
NMePFOSA	31506-32-8	ND	ND		ng/g
NMePFOSAE	24448-09-7	ND	ND		ng/g
Perfluorobutanesulfonic acid	375-73-5	ND	ND		ng/g
Perfluorobutanoic acid	375-22-4	ND	ND		ng/g
Perfluorodecanesulfonic acid	335-77-3	ND	ND		ng/g
Perfluorodecanoic acid	335-76-2	ND	ND		ng/g
Perfluorododecanesulfonic acid	79780-39-5	ND	ND		ng/g
Perfluorododecanoic acid	307-55-1	ND	ND		ng/g
Perfluoroheptanesulfonic acid	375-92-8	ND	ND		ng/g
Perfluoroheptanoic acid	375-85-9	ND	ND		ng/g
Perfluorohexadecanoic acid	67905-19-5	ND	ND		ng/g
Perfluorohexanesulfonic acid	355-46-4	ND	ND		ng/g
Perfluorohexanoic acid	307-24-4	ND	ND		ng/g
Perfluorononanesulfonic acid	68259-12-1	ND	ND		ng/g
Perfluorononanoic acid	375-95-1	ND	ND		ng/g
Perfluorooctadecanoic acid	16517-11-6	ND	ND		ng/g
Perfluorooctanesulfonamide	754-91-6	ND	ND		ng/g
Perfluorooctanesulfonic acid	1763-23-1	ND	ND		ng/g
Perfluorooctanoic acid	335-67-1	ND	ND		ng/g
Perfluoropentanesulfonic acid	2706-91-4	ND	ND		ng/g
Perfluoropentanoic acid	2706-90-3	ND	ND		ng/g
Perfluorotetradecanoic acid	376-06-7	ND	ND		ng/g
Perfluorotridecanoic acid	72629-94-8	ND	ND		ng/g
Perfluoroundecanoic acid	2058-94-8	ND	ND		ng/g
Total PFCA		0	0	0	ng/g
Total PFSA		0	0	0	ng/g

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.


Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1	Date Rec'd in Lab <i>8/26/19</i>	ALPHA Job # <i>193564</i>				
		of 2						
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables	Billing Information			
Project Name: <i>4650 Broadway</i> Project Location: <i>Manhattan</i> Project # <i>170505501</i>		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUS (1 File) <input type="checkbox"/> EQUS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #				
Client Information Client: <i>Lanyon</i> Address: <i>360 U 31st St NY, NY 10001</i> Phone: <i>212 479-5400</i> Fax: Email: <i>j.lauger@lanyon.com</i>		(Use Project name as Project #) <input type="checkbox"/> Project Manager: <i>Julia Laury</i> ALPHAQuote #:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		ANALYSIS						
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		Please specify Metals or TAL.		Sample Filtration				
				<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Total Bottles		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials		Sample Specific Comments	
		Date	Time					
3864	<i>OUP01_082619</i>	<i>8/24/19</i>		<i>S</i>	<i>KG</i>			
<i>02</i>	<i>RSB09A-1-2</i>	<i>8/26/19</i>	<i>8:45</i>	<i>S</i>	<i>KG</i>			
<i>43837-01</i>	<i>RSB09A-6-7</i>	<i>8/24/19</i>	<i>8:50</i>	<i>S</i>	<i>KG</i>	<i>HOLD PFAS</i>		
<i>04</i>	<i>RSB09A-0-1</i>	<i>8/24/19</i>	<i>8:57</i>	<i>S</i>	<i>KG</i>			
<i>05</i>	<i>RSB09A-7-8</i>	<i>8/24/19</i>	<i>9:01</i>	<i>S</i>	<i>KG</i>			
<i>06</i>	<i>RSB07A-2-3</i>	<i>8/26/19</i>	<i>9:11</i>	<i>S</i>	<i>KG</i>			
<i>07</i>	<i>RSB07A-5-6</i>	<i>8/26/19</i>	<i>9:15</i>	<i>S</i>	<i>KG</i>	<i>MS/MSO</i>		
<i>08</i>	<i>RSB06A-1-2</i>	<i>8/26/19</i>	<i>9:35</i>	<i>S</i>	<i>KG</i>			
<i>09</i>	<i>RSB06A-6-7</i>	<i>8/26/19</i>	<i>9:40</i>	<i>S</i>	<i>KG</i>			
<i>10</i>	<i>RSB15A-3-4</i>	<i>8/26/19</i>	<i>9:50</i>	<i>S</i>	<i>KG</i>			
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
Relinquished By:		Date/Time		Received By:		Date/Time		
<i>Paul Wagner</i>		<i>8/26/19 12:00</i>		<i>Neeraj Kumar</i>		<i>8/26/19 12:00</i>		
<i>Paul Wagner</i>		<i>8/26/19</i>		<i>Paul Wagner</i>		<i>8/26/19 10:30</i>		
<i>Paul Wagner</i>		<i>8/26/19 2:00</i>		<i>Paul Wagner</i>		<i>8/26/19 2:00</i>		

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1934791-01	RMW04_080519	WATER	MANHATTAN, NY	08/05/19 13:05	08/05/19
L1934791-02	TB01_080519	WATER	MANHATTAN, NY	08/05/19 00:00	08/05/19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1934791-01: The collection date and Client ID were specified by the client.

L1934791-02: A Trip Blank was received in the laboratory, but not listed on the Chain of Custody. At the client's request, the Trip Blank was analyzed.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 08/12/19

ORGANICS

VOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934791-01
 Client ID: RMW04_080519
 Sample Location: MANHATTAN, NY

Date Collected: 08/05/19 13:05
 Date Received: 08/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/09/19 01:03
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.59		ug/l	0.50	0.13	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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.21	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	0.77	J	ug/l	2.5	0.70	1
Chloromethane	44		ug/l	2.5	0.70	1
Bromomethane	31		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	15		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934791-01
Client ID: RMW04_080519
Sample Location: MANHATTAN, NY

Date Collected: 08/05/19 13:05
Date Received: 08/05/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	700	E	ug/l	5.0	1.5	1
Carbon disulfide	17		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	16		ug/l	5.0	1.0	1
2-Hexanone	18		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	0.89	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	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.3	J	ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934791-01
Client ID: RMW04_080519
Sample Location: MANHATTAN, NY

Date Collected: 08/05/19 13:05
Date Received: 08/05/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	0.71	J	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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	124		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1934791**Project Number:** 170505501**Report Date:** 08/12/19**SAMPLE RESULTS**

Lab ID: L1934791-01 D

Date Collected: 08/05/19 13:05

Client ID: RMW04_080519

Date Received: 08/05/19

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 08/12/19 08:59

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Acetone	720		ug/l	50	15.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934791-02
 Client ID: TB01_080519
 Sample Location: MANHATTAN, NY

Date Collected: 08/05/19 00:00
 Date Received: 08/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/12/19 08:36
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	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	0.13	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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	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	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934791-02
Client ID: TB01_080519
Sample Location: MANHATTAN, NY

Date Collected: 08/05/19 00:00
Date Received: 08/05/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934791-02
Client ID: TB01_080519
Sample Location: MANHATTAN, NY

Date Collected: 08/05/19 00:00
Date Received: 08/05/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	130		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/12/19 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1270660-12					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/12/19 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1270660-12					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/12/19 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1270660-12					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/08/19 21:01
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1270660-5					
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	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
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	0.13
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
1,3-Dichloropropene, Total	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	0.17
Benzene	ND		ug/l	0.50	0.16
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	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/08/19 21:01
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1270660-5					
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
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
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

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/08/19 21:01
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1270660-5					
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
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	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1934791

Report Date: 08/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1270660-10 WG1270660-11								
Methylene chloride	89		88		70-130	1		20
1,1-Dichloroethane	100		98		70-130	2		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	94		89		70-130	5		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	92		93		70-130	1		20
Tetrachloroethene	93		92		70-130	1		20
Chlorobenzene	96		93		75-130	3		20
Trichlorofluoromethane	100		96		62-150	4		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	98		96		70-130	2		20
cis-1,3-Dichloropropene	100		94		70-130	6		20
1,1-Dichloropropene	94		88		70-130	7		20
Bromoform	99		100		54-136	1		20
1,1,2,2-Tetrachloroethane	89		93		67-130	4		20
Benzene	97		93		70-130	4		20
Toluene	91		87		70-130	4		20
Ethylbenzene	96		94		70-130	2		20
Chloromethane	85		84		64-130	1		20
Bromomethane	91		89		39-139	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1270660-10 WG1270660-11								
Vinyl chloride	81		76		55-140	6		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	94		78		61-145	19		20
trans-1,2-Dichloroethene	87		85		70-130	2		20
Trichloroethene	95		91		70-130	4		20
1,2-Dichlorobenzene	96		97		70-130	1		20
1,3-Dichlorobenzene	94		95		70-130	1		20
1,4-Dichlorobenzene	90		94		70-130	4		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	95		90		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	100		95		70-130	5		20
Dibromomethane	98		100		70-130	2		20
1,2,3-Trichloropropane	90		95		64-130	5		20
Acrylonitrile	97		95		70-130	2		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	83		76		36-147	9		20
Acetone	92		88		58-148	4		20
Carbon disulfide	88		83		51-130	6		20
2-Butanone	72		84		63-138	15		20
Vinyl acetate	88		88		70-130	0		20
4-Methyl-2-pentanone	86		85		59-130	1		20
2-Hexanone	82		86		57-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1270660-10 WG1270660-11								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	120		110		63-133	9		20
1,2-Dibromoethane	95		99		70-130	4		20
1,3-Dichloropropane	93		93		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	94		94		70-130	0		20
n-Butylbenzene	92		94		53-136	2		20
sec-Butylbenzene	90		91		70-130	1		20
tert-Butylbenzene	94		94		70-130	0		20
o-Chlorotoluene	93		97		70-130	4		20
p-Chlorotoluene	94		96		70-130	2		20
1,2-Dibromo-3-chloropropane	82		98		41-144	18		20
Hexachlorobutadiene	98		98		63-130	0		20
Isopropylbenzene	92		92		70-130	0		20
p-Isopropyltoluene	94		94		70-130	0		20
Naphthalene	86		90		70-130	5		20
n-Propylbenzene	91		92		69-130	1		20
1,2,3-Trichlorobenzene	94		97		70-130	3		20
1,2,4-Trichlorobenzene	93		96		70-130	3		20
1,3,5-Trimethylbenzene	97		99		64-130	2		20
1,2,4-Trimethylbenzene	97		97		70-130	0		20
1,4-Dioxane	98		100		56-162	2		20
p-Diethylbenzene	94		91		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1934791

Report Date: 08/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1270660-10 WG1270660-11								
p-Ethyltoluene	95		96		70-130	1		20
1,2,4,5-Tetramethylbenzene	84		83		70-130	1		20
Ethyl ether	99		90		59-134	10		20
trans-1,4-Dichloro-2-butene	100		110		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	122		117		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	114		109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1270660-3 WG1270660-4								
Methylene chloride	99		90		70-130	10		20
1,1-Dichloroethane	96		95		70-130	1		20
Chloroform	100		95		70-130	5		20
Carbon tetrachloride	120		110		63-132	9		20
1,2-Dichloropropane	96		90		70-130	6		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	98		98		70-130	0		20
Tetrachloroethene	100		93		70-130	7		20
Chlorobenzene	100		98		75-130	2		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	100		96		70-130	4		20
cis-1,3-Dichloropropene	100		99		70-130	1		20
1,1-Dichloropropene	98		94		70-130	4		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	92		98		67-130	6		20
Benzene	100		96		70-130	4		20
Toluene	99		93		70-130	6		20
Ethylbenzene	100		98		70-130	2		20
Chloromethane	91		85		64-130	7		20
Bromomethane	80		76		39-139	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1270660-3 WG1270660-4								
Vinyl chloride	92		87		55-140	6		20
Chloroethane	110		92		55-138	18		20
1,1-Dichloroethene	94		94		61-145	0		20
trans-1,2-Dichloroethene	96		92		70-130	4		20
Trichloroethene	100		93		70-130	7		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		97		70-130	3		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	98		94		63-130	4		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	105		95		70-130	10		20
cis-1,2-Dichloroethene	93		93		70-130	0		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	95		99		64-130	4		20
Acrylonitrile	92		88		70-130	4		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	100		96		36-147	4		20
Acetone	89		86		58-148	3		20
Carbon disulfide	93		86		51-130	8		20
2-Butanone	110		120		63-138	9		20
Vinyl acetate	83		84		70-130	1		20
4-Methyl-2-pentanone	84		90		59-130	7		20
2-Hexanone	86		90		57-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1270660-3 WG1270660-4								
Bromochloromethane	97		100		70-130	3		20
2,2-Dichloropropane	120		100		63-133	18		20
1,2-Dibromoethane	98		100		70-130	2		20
1,3-Dichloropropane	97		94		70-130	3		20
1,1,1,2-Tetrachloroethane	110		100		64-130	10		20
Bromobenzene	96		98		70-130	2		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	90		86		70-130	5		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		99		70-130	1		20
1,2-Dibromo-3-chloropropane	86		98		41-144	13		20
Hexachlorobutadiene	120		110		63-130	9		20
Isopropylbenzene	100		98		70-130	2		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	91		95		70-130	4		20
n-Propylbenzene	100		99		69-130	1		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	110		100		64-130	10		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	96		106		56-162	10		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1270660-3 WG1270660-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	92		90		70-130	2		20
Ethyl ether	89		87		59-134	2		20
trans-1,4-Dichloro-2-butene	87		110		70-130	23	Q	20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	107		124		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	98		102		70-130
Dibromofluoromethane	98		103		70-130

PETROLEUM HYDROCARBONS

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

SAMPLE RESULTS

Lab ID: L1934791-01
 Client ID: RMW04_080519
 Sample Location: MANHATTAN, NY

Date Collected: 08/05/19 13:05
 Date Received: 08/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 08/08/19 13:53
 Analyst: BAD

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	800		ug/l	50	3.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	72		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1934791**Project Number:** 170505501**Report Date:** 08/12/19**SAMPLE RESULTS**

Lab ID: L1934791-01
 Client ID: RMW04_080519
 Sample Location: MANHATTAN, NY

Date Collected: 08/05/19 13:05
 Date Received: 08/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 08/09/19 19:00
 Analyst: SC

Extraction Method: EPA 3510C
 Extraction Date: 08/09/19 04:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	1400		ug/l	200	84.0	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
o-Terphenyl			63		40-140	

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/09/19 17:23
Analyst: SC

Extraction Method: EPA 3510C
Extraction Date: 08/09/19 04:53

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1270426-1					
TPH	ND		ug/l	200	84.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		40-140

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/08/19 11:04
Analyst: BAD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01 Batch: WG1270477-4					
Gasoline Range Organics	44	J	ug/l	50	3.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	80		70-130
4-Bromofluorobenzene	84		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1270426-2								
TPH	73		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	64				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01 Batch: WG1270477-2 WG1270477-3								
Gasoline Range Organics	85		91		80-120	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	81		87		70-130
4-Bromofluorobenzene	86		92		70-130

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1270477-6 QC Sample: L1934791-01 Client ID: RMW04_080519												
Gasoline Range Organics	800	400	1100	82		-	-		80-120	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	94				70-130
4-Bromofluorobenzene	76				70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1270477-5 QC Sample: L1934791-01 Client ID: RMW04_080519						
Gasoline Range Organics	800	840	ug/l	5		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		100		70-130
4-Bromofluorobenzene	72		79		70-130

Project Name: 4650 BROADWAY**Lab Number:** L1934791**Project Number:** 170505501**Report Date:** 08/12/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1934791-01A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L1934791-01B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L1934791-01C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L1934791-01D	Vial HCl preserved	A	NA		4.6	Y	Absent		TPH-GRO(14)
L1934791-01E	Vial HCl preserved	A	NA		4.6	Y	Absent		TPH-GRO(14)
L1934791-01F	Vial HCl preserved	A	NA		4.6	Y	Absent		TPH-GRO(14)
L1934791-01G	Amber 500ml unpreserved	A	5	5	4.6	Y	Absent		TPH-DRO-D(7)
L1934791-01H	Amber 500ml unpreserved	A	5	5	4.6	Y	Absent		TPH-DRO-D(7)
L1934791-02A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L1934791-02B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
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Lab Number: L1934791
Report Date: 08/12/19

- 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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported due to obvious interference.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1934791
Report Date: 08/12/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 ALPHA <small>ANALYTICAL</small>	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105				Page	Date Rec'd in Lab 8/5/19			ALPHA Job # L1934791		
		of	1									
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: 4656 BROADWAY Project Location: MANHATTAN, NY Project # 170505501 (Use Project name as Project #) <input type="checkbox"/>				Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other			Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #	
Client Information Client: LANGAN, DPC Address: 360 W 31st Street, NY, NY 10001 Phone: 212-479-5400 Fax: _____ Email: jleung@langan.com		Project Manager: B. Cochenour, J. Leung ALPHAQuote #: _____ Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____				Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge			Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
These samples have been previously analyzed by Alpha <input type="checkbox"/>						ANALYSIS			Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
Other project specific requirements/comments: U: Veronica Zulnege (vZulnege@langan.com)						TCL VOCs TPA PRO TPA GRO			Total Bottle			
Please specify Metals or TAL.												
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials							
		Date	Time									
37791-01	KMW04_050819	5/8/19	1305	GW	KS	X	X	X			8	
Preservative Code: A = None, B = HCl, C = HNO3, D = H2SO4, E = NaOH, F = MeOH, G = NaHSO4, H = Na2S2O3, K/E = Zn Ac/NaOH, O = Other Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, Q = Other, E = Encore, D = BOD Bottle Westboro: Certification No: MA935 Mansfield: Certification No: MA015						Container Type Preservative			Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			
Relinquished By:		Date/Time		Received By:		Date/Time						
[Signature]		8/5/19 1307		[Signature]		8/5/19 1307						
P.S.		8/5/19 1410		P.S. AAC		8/5/19 16:45						
[Signature]		8/5/19 21:20		[Signature]		8/5/19 2120						



ANALYTICAL REPORT

Lab Number:	L1938564
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Julia Leung
Phone:	(212) 479-5400
Project Name:	4650 BROADWAY
Project Number:	170505501
Report Date:	09/24/19

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), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1938564-01	DUP01_082619	SOIL	MANHATTAN	08/26/19 00:00	08/26/19
L1938564-02	RSB09A_1-2	SOIL	MANHATTAN	08/26/19 08:45	08/26/19
L1938564-03	RSB09A_6-7	SOIL	MANHATTAN	08/26/19 08:50	08/26/19
L1938564-04	RSB08A_0-1	SOIL	MANHATTAN	08/26/19 08:59	08/26/19
L1938564-05	RSB08A_7-8	SOIL	MANHATTAN	08/26/19 09:01	08/26/19
L1938564-06	RSB07A_2-3	SOIL	MANHATTAN	08/26/19 09:11	08/26/19
L1938564-07	RSB07A_5-6	SOIL	MANHATTAN	08/26/19 09:15	08/26/19
L1938564-08	RSB06A_1-2	SOIL	MANHATTAN	08/26/19 09:35	08/26/19
L1938564-09	RSB06A_6-7	SOIL	MANHATTAN	08/26/19 09:40	08/26/19
L1938564-10	RSB15A_3-4	SOIL	MANHATTAN	08/26/19 09:50	08/26/19
L1938564-11	RSB15A_5-6	SOIL	MANHATTAN	08/26/19 09:55	08/26/19
L1938564-12	RSB14A_2-3	SOIL	MANHATTAN	08/26/19 10:05	08/26/19
L1938564-13	RSB14A_5-6	SOIL	MANHATTAN	08/26/19 10:10	08/26/19
L1938564-14	RSB05A_0-1	SOIL	MANHATTAN	08/26/19 10:25	08/26/19
L1938564-15	RSB05A_5-6	SOIL	MANHATTAN	08/26/19 10:30	08/26/19
L1938564-16	RSB03A_0-1	SOIL	MANHATTAN	08/26/19 10:45	08/26/19
L1938564-17	RSB03A_5-6	SOIL	MANHATTAN	08/26/19 10:50	08/26/19
L1938564-18	FB01_082619	WATER	MANHATTAN	08/26/19 10:00	08/26/19

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

Case Narrative (continued)

Report Submission

Final Report: September 24, 2019

The analysis of TO Assay was subcontracted to Eurofins Lancaster. A copy of the laboratory report will be provided under separate cover. Please note: This data is only available in PDF format and is not available on Data Merger.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1938564-05: The sample identified as "RSB08A_7-8" on the chain of custody was identified as "RSB08A_0-1" on the container label. At the client's request, the sample is reported as "RSB08A_7-8".

Perfluorinated Alkyl Acids by Isotope Dilution

L1938564-05, -10, and -11: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L1938564-10: The reporting limit was elevated for Perfluorooctanesulfonamide (FOSA) due to low recovery of the extracted internal standard Perfluoro[13C8]Octanesulfonamide (M8FOSA). The low recovery was attributed to the sample matrix.

The WG1280019-2/-3 LCS/LCSD recoveries, associated with L1938564-01, -02, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16 and -17, is above the acceptance criteria for perfluorobutanesulfonic acid (pfbs) (130%-LCSD), perfluorohexanesulfonic acid (pfhxs) (134%-LCS), perfluoropentanesulfonic acid (pfpes) (136%/131%), perfluoroheptanesulfonic acid (pfhps) (193%/185%), perfluorooctanesulfonic acid (pfos) (189%/185%) and perfluorodecanesulfonic acid (pfds) (198%/186%); however, the associated samples are non-detect to the RL for these target analytes. The results of the original analysis are reported.

The WG1280019-4/-5 MS/MSD recoveries, performed on L1938564-07, are outside the acceptance criteria for perfluorohexanesulfonic acid (pfhxs) (160%/143%), 1h,1h,2h,2h-perfluorooctanesulfonic acid (6:2fts) (182%-MS), perfluoroheptanesulfonic acid (pfhps) (146%/166%), perfluorooctanesulfonic acid (pfos)

Project Name: 4650 BROADWAY
Project Number: 170505501

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Report Date: 09/24/19

Case Narrative (continued)

(147%/165%) and perfluorodecanesulfonic acid (pfd) (152%/170%). In addition, the WG1280019-4/-5 MS/MSD RPD is outside the acceptance criteria for 1h,1h,2h,2h-perfluorooctanesulfonic acid (6:2fts) (43%). WG1280019-5: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Elizabeth Porta

Title: Technical Director/Representative

Date: 09/24/19

ORGANICS

SEMIVOLATILES

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-01
 Client ID: DUP01_082619
 Sample Location: MANHATTAN

Date Collected: 08/26/19 00:00
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/28/19 22:16
 Analyst: PS
 Percent Solids: 80%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	9.40	2.40	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			58		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-01
Client ID: DUP01_082619
Sample Location: MANHATTAN

Date Collected: 08/26/19 00:00
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 09/09/19 21:51
Analyst: RS
Percent Solids: 80%

Extraction Method: EPA 537(M)
Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.12	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.12	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.12	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.12	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.12	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.12	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.12	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.12	0.201	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.12	0.153	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.12	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.12	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.12	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.12	0.321	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.12	0.225	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.12	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.12	0.171	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.12	0.110	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.12	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.12	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.12	0.229	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.12	0.060	1
PFOA/PFOS, Total	ND		ug/kg	1.12	0.047	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-01
 Client ID: DUP01_082619
 Sample Location: MANHATTAN

Date Collected: 08/26/19 00:00
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	74		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	76		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	92		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-02
 Client ID: RSB09A_1-2
 Sample Location: MANHATTAN

Date Collected: 08/26/19 08:45
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/28/19 22:38
 Analyst: PS
 Percent Solids: 75%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	9.74	2.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	51		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-02
 Client ID: RSB09A_1-2
 Sample Location: MANHATTAN

Date Collected: 08/26/19 08:45
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 09/09/19 22:08
 Analyst: RS
 Percent Solids: 75%

Extraction Method: EPA 537(M)
 Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.19	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.19	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.19	0.047	1
Perfluorohexanoic Acid (PFHxA)	0.067	J	ug/kg	1.19	0.063	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.19	0.054	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.19	0.072	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.19	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.19	0.214	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.19	0.163	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.19	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.19	0.155	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.19	0.080	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.19	0.343	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.19	0.241	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.19	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.19	0.183	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.19	0.117	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.19	0.101	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.19	0.084	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.19	0.244	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.19	0.065	1
PFOA/PFOS, Total	ND		ug/kg	1.19	0.050	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-02
Client ID: RSB09A_1-2
Sample Location: MANHATTAN

Date Collected: 08/26/19 08:45
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	68		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	98		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	106		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-03
 Client ID: RSB09A_6-7
 Sample Location: MANHATTAN

Date Collected: 08/26/19 08:50
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/28/19 23:01
 Analyst: PS
 Percent Solids: 79%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.81	2.25	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	53		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-04
 Client ID: RSB08A_0-1
 Sample Location: MANHATTAN

Date Collected: 08/26/19 08:59
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/28/19 23:24
 Analyst: PS
 Percent Solids: 64%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	10.7	2.74	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	53		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-04
 Client ID: RSB08A_0-1
 Sample Location: MANHATTAN

Date Collected: 08/26/19 08:59
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 09/09/19 22:25
 Analyst: RS
 Percent Solids: 64%

Extraction Method: EPA 537(M)
 Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.47	0.033	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.47	0.068	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.47	0.057	1
Perfluorohexanoic Acid (PFHxA)	0.082	J	ug/kg	1.47	0.077	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.47	0.066	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.47	0.089	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.47	0.062	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.47	0.264	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.47	0.201	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.47	0.110	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.47	0.191	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.47	0.099	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.47	0.422	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.47	0.296	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.47	0.069	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.47	0.225	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.47	0.144	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.47	0.124	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.47	0.103	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.47	0.301	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.47	0.080	1
PFOA/PFOS, Total	ND		ug/kg	1.47	0.062	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-04
 Client ID: RSB08A_0-1
 Sample Location: MANHATTAN

Date Collected: 08/26/19 08:59
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	82		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	91		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	98		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	9		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-05
 Client ID: RSB08A_7-8
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:01
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/28/19 23:48
 Analyst: PS
 Percent Solids: 81%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.29	2.11	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	52		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-05
 Client ID: RSB08A_7-8
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:01
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 09/09/19 22:42
 Analyst: RS
 Percent Solids: 81%

Extraction Method: EPA 537(M)
 Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.07	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.07	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.07	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.07	0.056	1
Perfluoroheptanoic Acid (PFHpA)	0.059	J	ug/kg	1.07	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.07	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.07	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.07	0.192	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.07	0.146	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.07	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	0.163	J	ug/kg	1.07	0.139	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.07	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.07	0.308	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.07	0.216	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.07	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.07	0.164	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.07	0.105	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.07	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.07	0.075	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.07	0.219	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.07	0.058	1
PFOA/PFOS, Total	0.163	J	ug/kg	1.07	0.045	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-05
 Client ID: RSB08A_7-8
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:01
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	44	Q	60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	47	Q	65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	64	Q	70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	44	Q	61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	43	Q	62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	56	Q	63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	44	Q	62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	19	Q	32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	41	Q	61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	62	Q	65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	48	Q	65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	25		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	15	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	51	Q	64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	23	Q	42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	48	Q	56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-06
 Client ID: RSB07A_2-3
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:11
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 00:11
 Analyst: PS
 Percent Solids: 82%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.85	2.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	51		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-06
Client ID: RSB07A_2-3
Sample Location: MANHATTAN

Date Collected: 08/26/19 09:11
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 09/09/19 22:59
Analyst: RS
Percent Solids: 82%

Extraction Method: EPA 537(M)
Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.15	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.15	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.15	0.045	1
Perfluorohexanoic Acid (PFHxA)	0.066	J	ug/kg	1.15	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.15	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.15	0.069	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.15	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.15	0.206	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.15	0.157	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.15	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	0.237	J	ug/kg	1.15	0.149	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.15	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.15	0.329	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.15	0.231	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.15	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.15	0.176	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.15	0.112	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.15	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.15	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.15	0.235	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.15	0.062	1
PFOA/PFOS, Total	0.237	J	ug/kg	1.15	0.048	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-06
 Client ID: RSB07A_2-3
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:11
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	78		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	112		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	85		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	72		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	68		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-07
 Client ID: RSB07A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:15
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 00:33
 Analyst: PS
 Percent Solids: 77%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	9.34	2.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	50		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-07
 Client ID: RSB07A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:15
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 09/09/19 23:16
 Analyst: RS
 Percent Solids: 77%

Extraction Method: EPA 537(M)
 Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.12	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.12	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.12	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.12	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.12	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.12	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.12	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.12	0.202	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.12	0.154	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.12	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	0.149	J	ug/kg	1.12	0.146	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.12	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.12	0.323	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.12	0.227	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.12	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.12	0.172	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.12	0.110	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.12	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.12	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.12	0.230	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.12	0.061	1
PFOA/PFOS, Total	0.149	J	ug/kg	1.12	0.047	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-07
Client ID: RSB07A_5-6
Sample Location: MANHATTAN

Date Collected: 08/26/19 09:15
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	125		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	112		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	104		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	94		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	81		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	122		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-08
 Client ID: RSB06A_1-2
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:35
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 01:41
 Analyst: PS
 Percent Solids: 83%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.85	2.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	52		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-08
Client ID: RSB06A_1-2
Sample Location: MANHATTAN

Date Collected: 08/26/19 09:35
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 09/10/19 00:07
Analyst: RS
Percent Solids: 83%

Extraction Method: EPA 537(M)
Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.13	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.13	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.13	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.13	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.13	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.13	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.13	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.13	0.202	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.13	0.154	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.13	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.13	0.147	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.13	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.13	0.324	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.13	0.227	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.13	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.13	0.173	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.13	0.110	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.13	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.13	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.13	0.231	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.13	0.061	1
PFOA/PFOS, Total	ND		ug/kg	1.13	0.047	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-08
 Client ID: RSB06A_1-2
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:35
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	107		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	136		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	127		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	115		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	118		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-09
 Client ID: RSB06A_6-7
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:40
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 18:53
 Analyst: PS
 Percent Solids: 85%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.08	2.06	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	49		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-09
Client ID: RSB06A_6-7
Sample Location: MANHATTAN

Date Collected: 08/26/19 09:40
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 09/10/19 00:24
Analyst: RS
Percent Solids: 85%

Extraction Method: EPA 537(M)
Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.04	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.04	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.04	0.041	1
Perfluorohexanoic Acid (PFHxA)	0.068	J	ug/kg	1.04	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.04	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.04	0.063	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.04	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.04	0.187	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.04	0.142	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.04	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.04	0.135	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.04	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.04	0.298	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.04	0.210	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.04	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.04	0.159	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.04	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.04	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.04	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.04	0.213	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.04	0.056	1
PFOA/PFOS, Total	ND		ug/kg	1.04	0.044	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-09
 Client ID: RSB06A_6-7
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:40
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	50		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	111		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-10
 Client ID: RSB15A_3-4
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:50
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 02:04
 Analyst: PS
 Percent Solids: 92%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.24	2.10	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	54		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-10
Client ID: RSB15A_3-4
Sample Location: MANHATTAN

Date Collected: 08/26/19 09:50
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 09/10/19 00:58
Analyst: RS
Percent Solids: 92%

Extraction Method: EPA 537(M)
Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.02	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.02	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.02	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.02	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.02	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.02	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.02	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.02	0.183	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.02	0.139	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.02	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.02	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.02	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.02	0.293	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.02	0.206	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.02	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.02	0.156	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	10.2	0.100	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.110	J	ug/kg	1.02	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.02	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.02	0.209	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.02	0.055	1
PFOA/PFOS, Total	ND		ug/kg	1.02	0.043	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-10
 Client ID: RSB15A_3-4
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:50
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	50	Q	60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	66		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	69		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	78		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	79		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	16	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	0	Q	1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	29	Q	42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-11
 Client ID: RSB15A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:55
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 02:26
 Analyst: PS
 Percent Solids: 86%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	7.85	2.00	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			52		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-11
Client ID: RSB15A_5-6
Sample Location: MANHATTAN

Date Collected: 08/26/19 09:55
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 09/10/19 01:15
Analyst: RS
Percent Solids: 86%

Extraction Method: EPA 537(M)
Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.11	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.11	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.11	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.11	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.11	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.11	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.11	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.11	0.199	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.11	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.11	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	0.178	J	ug/kg	1.11	0.144	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.11	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.11	0.318	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.11	0.223	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.11	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.11	0.169	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.11	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.11	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.11	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.11	0.226	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.11	0.060	1
PFOA/PFOS, Total	0.178	J	ug/kg	1.11	0.046	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-11
 Client ID: RSB15A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 09:55
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	64	Q	65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	77		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	90		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	122		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-12
 Client ID: RSB14A_2-3
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:05
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 02:48
 Analyst: PS
 Percent Solids: 83%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	9.02	2.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	47		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-12
 Client ID: RSB14A_2-3
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:05
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 09/10/19 01:32
 Analyst: RS
 Percent Solids: 83%

Extraction Method: EPA 537(M)
 Extraction Date: 09/04/19 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.06	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.06	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.06	0.041	1
Perfluorohexanoic Acid (PFHxA)	0.061	J	ug/kg	1.06	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.06	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.06	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.06	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.06	0.190	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.06	0.144	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.06	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.06	0.138	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.06	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.06	0.304	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.06	0.213	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.06	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.06	0.162	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.06	0.104	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.06	0.089	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.06	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.06	0.216	1
Perfluorotetradecanoic Acid (PFTTA)	ND		ug/kg	1.06	0.057	1
PFOA/PFOS, Total	ND		ug/kg	1.06	0.044	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-12
 Client ID: RSB14A_2-3
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:05
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	113		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	118		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	108		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	79		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	108		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	135		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	117		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	83		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	123		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-13
 Client ID: RSB14A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:10
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 03:10
 Analyst: PS
 Percent Solids: 77%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	10.0	2.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	50		15-110



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-13
 Client ID: RSB14A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:10
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 09/10/19 01:49
 Analyst: RS
 Percent Solids: 77%

Extraction Method: EPA 537(M)
 Extraction Date: 09/04/19 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.28	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.28	0.059	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.28	0.050	1
Perfluorohexanoic Acid (PFHxA)	0.087	J	ug/kg	1.28	0.067	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.28	0.058	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.28	0.078	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.28	0.054	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.28	0.230	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.28	0.175	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.28	0.096	1
Perfluorooctanesulfonic Acid (PFOS)	0.198	J	ug/kg	1.28	0.167	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.28	0.086	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.28	0.368	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.28	0.258	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.28	0.060	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.28	0.196	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.28	0.126	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.28	0.108	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.28	0.090	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.28	0.262	1
Perfluorotetradecanoic Acid (PFTA)	0.069	J	ug/kg	1.28	0.069	1
PFOA/PFOS, Total	0.198	J	ug/kg	1.28	0.054	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-13
 Client ID: RSB14A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:10
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	111		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	125		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	126		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	89		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	87		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	115		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-14
 Client ID: RSB05A_0-1
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:25
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 03:31
 Analyst: PS
 Percent Solids: 92%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.08	2.06	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-14
Client ID: RSB05A_0-1
Sample Location: MANHATTAN

Date Collected: 08/26/19 10:25
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 09/10/19 02:06
Analyst: RS
Percent Solids: 92%

Extraction Method: EPA 537(M)
Extraction Date: 09/04/19 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.954	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.954	0.044	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.954	0.037	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.954	0.050	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.954	0.043	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.954	0.058	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.954	0.040	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.954	0.171	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.954	0.130	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.954	0.072	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	0.954	0.124	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.954	0.064	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.954	0.274	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.954	0.192	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.954	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.954	0.146	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.954	0.094	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.954	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.954	0.067	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.954	0.195	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.954	0.052	1
PFOA/PFOS, Total	ND		ug/kg	0.954	0.040	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-14
 Client ID: RSB05A_0-1
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:25
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	137		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	136		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	102		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-15
 Client ID: RSB05A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:30
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 03:52
 Analyst: PS
 Percent Solids: 75%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	9.16	2.34	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			54		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-15
 Client ID: RSB05A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:30
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 09/10/19 02:23
 Analyst: RS
 Percent Solids: 75%

Extraction Method: EPA 537(M)
 Extraction Date: 09/04/19 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.17	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.17	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.17	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.17	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.17	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.17	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.17	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.17	0.210	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.17	0.160	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.17	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.17	0.152	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.17	0.079	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.17	0.336	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.17	0.236	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.17	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.17	0.179	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.17	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.17	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.17	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.17	0.239	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.17	0.063	1
PFOA/PFOS, Total	ND		ug/kg	1.17	0.049	1

Project Name: 4650 BROADWAY

Lab Number: L1938564

Project Number: 170505501

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-15

Date Collected: 08/26/19 10:30

Client ID: RSB05A_5-6

Date Received: 08/26/19

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	79		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	82		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	94		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	100		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	102		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	131		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-16
 Client ID: RSB03A_0-1
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:45
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/04/19 05:24
 Analyst: PS
 Percent Solids: 84%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.82	2.25	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			61		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-16
Client ID: RSB03A_0-1
Sample Location: MANHATTAN

Date Collected: 08/26/19 10:45
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 09/10/19 02:40
Analyst: RS
Percent Solids: 84%

Extraction Method: EPA 537(M)
Extraction Date: 09/04/19 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.113	J	ug/kg	1.11	0.025	1
Perfluoropentanoic Acid (PFPeA)	0.149	J	ug/kg	1.11	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.11	0.043	1
Perfluorohexanoic Acid (PFHxA)	0.199	J	ug/kg	1.11	0.058	1
Perfluoroheptanoic Acid (PFHpA)	0.092	J	ug/kg	1.11	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.11	0.067	1
Perfluorooctanoic Acid (PFOA)	0.202	J	ug/kg	1.11	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.11	0.199	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.11	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.11	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	0.377	J	ug/kg	1.11	0.144	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.11	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.11	0.318	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.11	0.224	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.11	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.11	0.170	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.11	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.114	J	ug/kg	1.11	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.11	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.11	0.227	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.11	0.060	1
PFOA/PFOS, Total	0.579	J	ug/kg	1.11	0.047	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-16
 Client ID: RSB03A_0-1
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:45
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	123		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	78		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	95		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	102		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	80		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	110		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	127		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-17
 Client ID: RSB03A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:50
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/29/19 19:13
 Analyst: PS
 Percent Solids: 80%

Extraction Method: EPA 3570
 Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.61	2.20	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			36		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-17
 Client ID: RSB03A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:50
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 09/10/19 02:57
 Analyst: RS
 Percent Solids: 80%

Extraction Method: EPA 537(M)
 Extraction Date: 09/04/19 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.11	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.11	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.11	0.043	1
Perfluorohexanoic Acid (PFHxA)	0.060	J	ug/kg	1.11	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.11	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.11	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.11	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.11	0.198	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.11	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.11	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	0.162	J	ug/kg	1.11	0.144	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.11	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.11	0.317	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.11	0.223	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.11	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.11	0.169	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.11	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.11	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.11	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.11	0.226	1
Perfluorotetradecanoic Acid (PFTTA)	ND		ug/kg	1.11	0.060	1
PFOA/PFOS, Total	0.162	J	ug/kg	1.11	0.046	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-17
 Client ID: RSB03A_5-6
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:50
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	78		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	120		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	116		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-18
 Client ID: FB01_082619
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:00
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 08/28/19 20:46
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 08/28/19 11:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	31.4	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			31		15-110	

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-18
 Client ID: FB01_082619
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:00
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 122,537(M)
 Analytical Date: 09/09/19 16:49
 Analyst: JW

Extraction Method: EPA 537
 Extraction Date: 09/06/19 14:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.82	0.371	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.82	0.360	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.82	0.216	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.82	0.298	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.82	0.205	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.82	0.342	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.82	0.214	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.82	1.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.82	0.625	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.82	0.284	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.82	0.458	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.82	0.276	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.82	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.82	0.589	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.82	0.236	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.82	0.891	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.82	0.527	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.82	0.731	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.82	0.338	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.82	0.297	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.82	0.225	1
PFOA/PFOS, Total	ND		ng/l	1.82	0.214	1

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-18
 Client ID: FB01_082619
 Sample Location: MANHATTAN

Date Collected: 08/26/19 10:00
 Date Received: 08/26/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	114		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	62		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	77		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	85		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	98		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		33-143

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/28/19 21:08
Analyst: PS

Extraction Method: EPA 3570
Extraction Date: 08/27/19 15:29

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-17 Batch: WG1277283-1					
1,4-Dioxane	ND		ug/kg	8.00	2.04

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	51		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/28/19 18:30
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 08/28/19 11:39

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 18 Batch: WG1277635-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	36		15-110

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 09/09/19 21:00
Analyst: RS

Extraction Method: EPA 537(M)
Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02,04-17 Batch: WG1280019-1					
Perfluorobutanoic Acid (PFBA)	0.123	J	ug/kg	1.00	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.00	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.00	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.00	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.00	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.00	0.061
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.00	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.00	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.00	0.136
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.00	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.00	0.130
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.00	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.00	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.00	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.00	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.00	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.00	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.00	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.00	0.070
Perfluorotridecanoic Acid (PFTTrDA)	ND		ug/kg	1.00	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.00	0.054
PFOA/PFOS, Total	ND		ug/kg	1.00	0.042

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

Method Blank Analysis Batch Quality Control

Analytical Method: 122,537(M)
 Analytical Date: 09/09/19 21:00
 Analyst: RS

Extraction Method: EPA 537(M)
 Extraction Date: 09/04/19 09:58

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02,04-17 Batch: WG1280019-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	133		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	138		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	93		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	9		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	104		26-160

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 122,537(M)
Analytical Date: 09/08/19 22:15
Analyst: JW

Extraction Method: EPA 537
Extraction Date: 09/06/19 14:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 18 Batch: WG1281027-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 122,537(M)
 Analytical Date: 09/08/19 22:15
 Analyst: JW

Extraction Method: EPA 537
 Extraction Date: 09/06/19 14:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 18 Batch: WG1281027-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	66		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEA)	81		33-143

Lab Control Sample Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-17 Batch: WG1277283-2 WG1277283-3								
1,4-Dioxane	110		114		40-140	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	60		61		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 18 Batch: WG1277635-2 WG1277635-3								
1,4-Dioxane	118		122		40-140	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	31		31		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1938564

Project Number: 170505501

Report Date: 09/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,04-17 Batch: WG1280019-2 WG1280019-3								
Perfluorobutanoic Acid (PFBA)	128		125		71-135	2		30
Perfluoropentanoic Acid (PFPeA)	125		124		69-132	1		30
Perfluorobutanesulfonic Acid (PFBS)	124		130	Q	72-128	5		30
Perfluorohexanoic Acid (PFHxA)	126		127		70-132	1		30
Perfluoroheptanoic Acid (PFHpA)	130		128		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	134	Q	128		67-130	5		30
Perfluorooctanoic Acid (PFOA)	128		128		69-133	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	114		140		64-140	20		30
Perfluoroheptanesulfonic Acid (PFHpS)	193	Q	185	Q	70-132	4		30
Perfluorononanoic Acid (PFNA)	123		116		72-129	6		30
Perfluorooctanesulfonic Acid (PFOS)	189	Q	185	Q	68-136	2		30
Perfluorodecanoic Acid (PFDA)	128		115		69-133	11		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	112		111		65-137	1		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	131		131		63-144	0		30
Perfluoroundecanoic Acid (PFUnA)	119		126		64-136	6		30
Perfluorodecanesulfonic Acid (PFDS)	198	Q	186	Q	59-134	6		30
Perfluorooctanesulfonamide (FOSA)	136		135		67-137	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	112		111		61-139	1		30
Perfluorododecanoic Acid (PFDoA)	108		114		69-135	5		30
Perfluorotridecanoic Acid (PFTrDA)	122		125		66-139	2		30
Perfluorotetradecanoic Acid (PFTA)	114		112		69-133	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1938564

Project Number: 170505501

Report Date: 09/24/19

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,04-17 Batch: WG1280019-2 WG1280019-3

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		94		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		106		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	135		109		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		97		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		99		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	131		111		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		96		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	128		82		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		78		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		100		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	108		91		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87		100		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	113		114		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	48		42		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91		101		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		100		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	121		123		26-160

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 18 Batch: WG1281027-2 WG1281027-3								
Perfluorobutanoic Acid (PFBA)	97		98		67-148	1		30
Perfluoropentanoic Acid (PFPeA)	99		101		63-161	2		30
Perfluorobutanesulfonic Acid (PFBS)	112		115		65-157	3		30
Perfluorohexanoic Acid (PFHxA)	102		100		69-168	2		30
Perfluoroheptanoic Acid (PFHpA)	99		101		58-159	2		30
Perfluorohexanesulfonic Acid (PFHxS)	100		100		69-177	0		30
Perfluorooctanoic Acid (PFOA)	97		100		63-159	3		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	111		100		49-187	10		30
Perfluoroheptanesulfonic Acid (PFHpS)	97		108		61-179	11		30
Perfluorononanoic Acid (PFNA)	96		96		68-171	0		30
Perfluorooctanesulfonic Acid (PFOS)	96		107		52-151	11		30
Perfluorodecanoic Acid (PFDA)	101		101		63-171	0		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	89		86		56-173	3		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	102		93		60-166	9		30
Perfluoroundecanoic Acid (PFUnA)	99		100		60-153	1		30
Perfluorodecanesulfonic Acid (PFDS)	91		103		38-156	12		30
Perfluorooctanesulfonamide (FOSA)	103		98		46-170	5		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	98		112		45-170	13		30
Perfluorododecanoic Acid (PFDoA)	98		102		67-153	4		30
Perfluorotridecanoic Acid (PFTrDA)	102		102		48-158	0		30
Perfluorotetradecanoic Acid (PFTA)	104		106		59-182	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 18 Batch: WG1281027-2 WG1281027-3								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		85		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	117		100		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		87		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		76		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		81		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		85		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		82		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		76		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		89		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		82		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		78		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98		88		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		72		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		79		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	33		30		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		59		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		79		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	96		76		33-143

Matrix Spike Analysis Batch Quality Control

Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1277283-4 WG1277283-5 QC Sample: L1938564-07 Client ID: RSB07A_5-6												
1,4-Dioxane	ND	438	505	115		547	114		40-140	8		30

Surrogate	MS % Recovery Qualifier		MSD % Recovery Qualifier		Acceptance Criteria
1,4-Dioxane-d8		50		41	15-110

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,04-17 QC Batch ID: WG1280019-4 WG1280019-5 QC Sample: L1938564-07 Client ID: RSB07A_5-6												
Perfluorobutanoic Acid (PFBA)	ND	6.18	7.31	118		6.94	121		71-135	5		30
Perfluoropentanoic Acid (PFPeA)	ND	6.18	7.40	120		6.96	121		69-132	6		30
Perfluorobutanesulfonic Acid (PFBS)	ND	5.48	6.79	124		6.26	123		72-128	8		30
Perfluorohexanoic Acid (PFHxA)	ND	6.18	7.51	121		7.05	123		70-132	6		30
Perfluoroheptanoic Acid (PFHpA)	ND	6.18	7.77	126		6.99	121		71-131	11		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	5.64	9.00	160	Q	7.49	143	Q	67-130	18		30
Perfluorooctanoic Acid (PFOA)	ND	6.18	7.43	120		6.90	120		69-133	7		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.87	10.7	182	Q	6.88	126		64-140	43	Q	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.87	8.58	146	Q	9.10	166	Q	70-132	6		30
Perfluorononanoic Acid (PFNA)	ND	6.18	7.40	120		6.57	114		72-129	12		30
Perfluorooctanesulfonic Acid (PFOS)	0.149J	5.72	8.40	147	Q	8.79	165	Q	68-136	5		30
Perfluorodecanoic Acid (PFDA)	ND	6.18	7.21	117		6.80	118		69-133	6		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.93	7.25	122		6.41	116		65-137	12		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	6.18	8.03	130		7.03	122		63-144	13		30
Perfluoroundecanoic Acid (PFUnA)	ND	6.18	7.67	124		7.39	128		64-136	4		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.97	9.08	152	Q	9.43	170	Q	59-134	4		30
Perfluorooctanesulfonamide (FOSA)	ND	6.18	7.18	116		6.80	118		67-137	5		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	6.18	6.95	112		6.46	112		61-139	7		30
Perfluorododecanoic Acid (PFDoA)	ND	6.18	6.45	104		6.24	108		69-135	3		30
Perfluorotridecanoic Acid (PFTrDA)	ND	6.18	7.59	123		7.09	123		66-139	7		30
Perfluorotetradecanoic Acid (PFTA)	ND	6.18	6.92	112		6.60	115		69-133	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Lab Number: L1938564

Project Number: 170505501

Report Date: 09/24/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,04-17 QC Batch ID: WG1280019-4 WG1280019-5 QC Sample: L1938564-07 Client ID: RSB07A_5-6

Surrogate (Extracted Internal Standard)	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	96		140		25-186
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		141		32-182
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	113		106		42-136
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	111		119		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	118		109		64-158
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		96		65-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		102		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		103		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		152		63-166
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		97		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	138		118		26-160
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		97		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		107		65-182
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	89		84		1-125
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		134		65-151
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		100		62-152
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		105		61-154
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	119		169	Q	70-151

INORGANICS & MISCELLANEOUS

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-01

Client ID: DUP01_082619

Sample Location: MANHATTAN

Date Collected: 08/26/19 00:00

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	79.5		%	0.100	0.100	1	-	08/28/19 00:36	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-02

Client ID: RSB09A_1-2

Sample Location: MANHATTAN

Date Collected: 08/26/19 08:45

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	74.9		%	0.100	0.100	1	-	08/28/19 00:36	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-03

Client ID: RSB09A_6-7

Sample Location: MANHATTAN

Date Collected: 08/26/19 08:50

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	78.6		%	0.100	0.100	1	-	08/28/19 00:36	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-04

Client ID: RSB08A_0-1

Sample Location: MANHATTAN

Date Collected: 08/26/19 08:59

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	63.5		%	0.100	0.100	1	-	08/28/19 00:36	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-05

Client ID: RSB08A_7-8

Sample Location: MANHATTAN

Date Collected: 08/26/19 09:01

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	81.3		%	0.100	0.100	1	-	08/28/19 00:36	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-06

Client ID: RSB07A_2-3

Sample Location: MANHATTAN

Date Collected: 08/26/19 09:11

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	82.0		%	0.100	0.100	1	-	08/28/19 00:36	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-07

Client ID: RSB07A_5-6

Sample Location: MANHATTAN

Date Collected: 08/26/19 09:15

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	77.4		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-08

Client ID: RSB06A_1-2

Sample Location: MANHATTAN

Date Collected: 08/26/19 09:35

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	83.2		%	0.100	0.100	1	-	08/28/19 00:36	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-09

Client ID: RSB06A_6-7

Sample Location: MANHATTAN

Date Collected: 08/26/19 09:40

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	84.7		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-10

Client ID: RSB15A_3-4

Sample Location: MANHATTAN

Date Collected: 08/26/19 09:50

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	91.7		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-11

Client ID: RSB15A_5-6

Sample Location: MANHATTAN

Date Collected: 08/26/19 09:55

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	86.0		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-12

Client ID: RSB14A_2-3

Sample Location: MANHATTAN

Date Collected: 08/26/19 10:05

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	82.9		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-13

Client ID: RSB14A_5-6

Sample Location: MANHATTAN

Date Collected: 08/26/19 10:10

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	76.6		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-14

Client ID: RSB05A_0-1

Sample Location: MANHATTAN

Date Collected: 08/26/19 10:25

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	91.9		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-15

Client ID: RSB05A_5-6

Sample Location: MANHATTAN

Date Collected: 08/26/19 10:30

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	75.4		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-16

Client ID: RSB03A_0-1

Sample Location: MANHATTAN

Date Collected: 08/26/19 10:45

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	84.4		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

SAMPLE RESULTS

Lab ID: L1938564-17

Client ID: RSB03A_5-6

Sample Location: MANHATTAN

Date Collected: 08/26/19 10:50

Date Received: 08/26/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	80.0		%	0.100	0.100	1	-	08/28/19 00:41	121,2540G	CC



Lab Duplicate Analysis

Batch Quality Control

Project Name: 4650 BROADWAY

Project Number: 170505501

Lab Number: L1938564

Report Date: 09/24/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-06,08 QC Batch ID: WG1277510-1 QC Sample: L1936922-17 Client ID: DUP Sample						
Solids, Total	70.7	70.3	%	1		10
General Chemistry - Mansfield Lab Associated sample(s): 07,09-17 QC Batch ID: WG1277511-1 QC Sample: L1938564-07 Client ID: RSB07A_5-6						
Solids, Total	77.4	77.2	%	0		10

Project Name: 4650 BROADWAY**Lab Number:** L1938564**Project Number:** 170505501**Report Date:** 09/24/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1938564-01A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-01B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-02A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-02B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-03A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14)
L1938564-03B	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		A2-TS(7)
L1938564-03C	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		A2-TS(7)
L1938564-03D	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L1938564-03E	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L1938564-03F	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L1938564-04A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-04B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-05A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-05B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-06A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-06B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-07A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-07B	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-07C	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-07D	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-07E	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-07F	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-08A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)

Project Name: 4650 BROADWAY
Project Number: 170505501

Serial_No:09241909:35
Lab Number: L1938564
Report Date: 09/24/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1938564-08B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-09A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-09B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-10A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-10B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-11A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-11B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-12A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-12B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-13A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-13B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-14A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-14B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-15A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-15B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-16A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-16B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-17A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		A2-1,4-DIOXANE-SIM(14),A2-TS(7)
L1938564-17B	Plastic 8oz unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(28)
L1938564-18A	Plastic 250ml unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L1938564-18B	Plastic 250ml unpreserved	A	NA		3.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L1938564-18C	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1938564-18D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
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- 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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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 lower value for the two columns has been reported due to obvious interference.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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 exceedances 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.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 4650 BROADWAY
Project Number: 170505501

Lab Number: L1938564
Report Date: 09/24/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

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 its 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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA 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, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.


EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 ALPHA <small>ANALYTICAL</small>	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 2	Date Rec'd in Lab 8/26/19	ALPHA Job # L193564
		Project Information Project Name: <u>4650 Broadway</u> Project Location: <u>Manhattan</u> Project # <u>170505501</u> (Use Project name as Project #) <input type="checkbox"/>	Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (4 File)	Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #
Client Information Client: <u>Lanyon</u> Address: <u>360 U 31st St 8th Fl</u> <u>NY NY 10001</u> Phone: <u>212 479-5400</u> Fax: Email: <u>jleung@lanyon.com</u>	Project Manager: <u>Julia Leung</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	<input type="checkbox"/> NY Part 375 <input type="checkbox"/> NY CP-51 <input type="checkbox"/> Other	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)	
Other project specific requirements/comments:		Please specify Metals or TAL.		Total Bottles	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	1-4 done PFAS TOP assay
38564-01	DUP01_082619	8/26/19	S	KG	✓
02	RSB07A-1-2	8/26/19	8:45	S	KG
03	RSB07A-6-7	8/24/19	8:50	S	KG
04	RSB07A-0-1	8/24/19	8:59	S	KG
05	RSB07A-7-8	8/26/19	9:01	S	KG
06	RSB07A-2-3	8/26/19	9:11	S	KG
07	RSB07A-5-6	8/26/19	9:15	S	KG
08	RSB06A-1-2	8/26/19	9:35	S	KG
09	RSB06A-6-7	8/26/19	9:40	S	KG
10	RSB15A-3-4	8/26/19	9:50	S	KG
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015	
		Container Type			
		Preservative			
		Relinquished By:		Received By:	
		Date/Time		Date/Time	
		8/26/19 12:00		8/26/19 12:00	
		8/26/19		8/26/19 10:30	
		8/26/19 2:00		8/26/19 2:00	
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)					

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <u>2</u> of <u>2</u>	Date Rec'd in Lab <u>8/26/19</u>	ALPHA Job # <u>2193854</u>				
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: <u>4650 Broadway</u> Project Location: <u>Manhattan</u> Project # <u>170505501</u> (Use Project name as Project #) <input type="checkbox"/>					
Client Information Client: <u>Langan</u> Address: <u>360 W 31st St Bldg F</u> <u>NY NY 10001</u> Phone: <u>212 479-5400</u> Fax: Email: <u>jleung@langan.com</u>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #				
Project Manager: <u>Julia Leung</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities: Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:				
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)				
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials			Total Bottle
		Date	Time					
<u>38564-11</u>	<u>RSB15A-5-6</u>	<u>8/26/19</u>	<u>09:55</u>	<u>S</u>	<u>K6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>12</u>	<u>RSB14A-2-3</u>	<u>8/26/19</u>	<u>10:05</u>	<u>S</u>	<u>K6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>13</u>	<u>RSB14A-5-6</u>	<u>8/26/19</u>	<u>10:10</u>	<u>S</u>	<u>K6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>14</u>	<u>RSB05A-0-1</u>	<u>8/26/19</u>	<u>10:25</u>	<u>S</u>	<u>K6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>15</u>	<u>RSB05A-5-6</u>	<u>8/26/19</u>	<u>10:30</u>	<u>S</u>	<u>K6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>16</u>	<u>RSB03A-0-1</u>	<u>8/26/19</u>	<u>10:45</u>	<u>S</u>	<u>K6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>17</u>	<u>RSB03A-5-6</u>	<u>8/26/19</u>	<u>10:50</u>	<u>S</u>	<u>K6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>18</u>	<u>FR01-082619</u>	<u>8/26/19</u>	<u>10:00</u>	<u>S</u>	<u>K6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>Field Blank</u>
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
		Relinquished By:	Date/Time	Received By:	Date/Time			
		<u>George Wagner</u>	<u>8/26/19 12:00</u>	<u>George Wagner</u>	<u>8/26/19 12:00</u>			
		<u>Paul Masphla</u>	<u>8/26/19 2:00</u>	<u>Paul Masphla</u>	<u>8/26/19 10:30</u>			
		<u>Paul Masphla</u>	<u>8/26/19 2:00</u>	<u>Julia Leung</u>	<u>8/26/19 2:00</u>			

		Subcontract Chain of Custody Eurofins US 2425 New Holland Pike Lancaster, PA 17601			Alpha Job Number L1938564	
		Client Information Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 201.812.2633 Email: brao@alphalab.com		Project Information Project Location: NY Project Manager: Ben Rao Turnaround & Deliverables Information Due Date: 09/24/19 Deliverables:		Regulatory Requirements/Report Limits State/Federal Program: NYDEC Regulatory Criteria: NY-UNRES
Project Specific Requirements and/or Report Requirements						
Reference following Alpha Job Number on final report/deliverables: L1938564				Report to include Method Blank, LCS/LCSD: YES		
Additional Comments: Send all results/reports to subreports@alphalab.com and brao@alphalab.com. Quote 221848A = 36 PFAs Pre-oxidation, TOP Soil Oxidation Prep, 36 PFAs Post-oxidation. ASP-B deliverable package.						
Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC	
	RSB09A_6-7	08-26-19 08:50	SOIL	Total Oxidizable Precursor		
		Relinquished By:	Date/Time:	Received By:	Date/Time:	
		<i>C. Coleau</i>	<i>8/27/19</i>			
Form No: AL_subcoc						



Transaction Date: 27 Aug 2019

Tracking Number: 1ZE306540190599466

① ADDRESS INFORMATION

Ship To:
EUROFINS PA
2425 New Holland Pike
LANCASTER PA 176015946

Ship From:
Walkup
Login Dept Westboro
8 Walkup Dr
Westborough MA 01581
Telephone:508-898-9220
email:login@alphalab.com

Return Address:
Walkup
Login Dept Westboro
8 Walkup Dr
Westborough MA 01581
Telephone:508-898-9220 email:login@alphalab.com

② PACKAGE INFORMATION

WEIGHT	DIMENSIONS / PACKAGING	DECLARED VALUE	REFERENCE NUMBERS
1. 12.0 lbs (27.0 lbs billable)	18 x 16 x 13in. Other Packaging	100.00 USD	

③ UPS SHIPPING SERVICE AND SHIPPING OPTIONS

Service: UPS Next Day Air
Guaranteed By: 10:30 AM Wednesday, Aug 28, 2019
Shipping Fees Subtotal: 114.03 USD
Transportation: 106.57 USD
Fuel Surcharge: 7.46 USD
Declared Value: 0.00 USD
Package 1

④ PAYMENT INFORMATION

Bill Shipping Charges to: Shipper's Account E30654

Shipping Charges:

114.03 USD

A discount has been applied for this shipment.

Negotiated Charges:

41.06 USD

Subtotal Shipping Charges:

41.06 USD

Total Charges:

41.06 USD

Note: This document is not an invoice. Your final invoice may vary from the displayed reference rates.

* For delivery and guarantee information, see the UPS Service Guide ({}). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.

APPENDIX H

**COMPLETED FISH AND WILDLIFE RESOURCES IMPACT
ANALYSIS DECISION KEY AND MEMO**

Appendix 3C Fish and Wildlife Resources Impact Analysis Decision Key		If YES Go to:	If NO Go to:
1.	Is the site or area of concern a discharge or spill event?	13	2
2.	Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13	3
3.	Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	4	9
4.	Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5
5.	Has the contamination gone off-site?	6	14
6.	Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7	14
7.	Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8
8.	Does contamination exist at concentrations that could exceed ecological impact SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14
9.	Does the site or any adjacent or downgradient property contain any of the following resources? i. Any endangered, threatened or special concern species or rare plants or their habitat ii. Any DEC designated significant habitats or rare NYS Ecological Communities iii. Tidal or freshwater wetlands iv. Stream, creek or river v. Pond, lake, lagoon vi. Drainage ditch or channel vii. Other surface water feature viii. Other marine or freshwater habitat ix. Forest x. Grassland or grassy field xi. Parkland or woodland xii. Shrubby area xiii. Urban wildlife habitat xiv. Other terrestrial habitat	11	10
10.	Is the lack of resources due to the contamination?	3.10.1	14
11.	Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources?	14	12
12.	Does the site have widespread surface soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	12
13.	Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact DEC for information regarding endangered species.)	Section 3.10.1	14
14.	No Fish and Wildlife Resources Impact Analysis needed.		